REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

February, 1986

1.50

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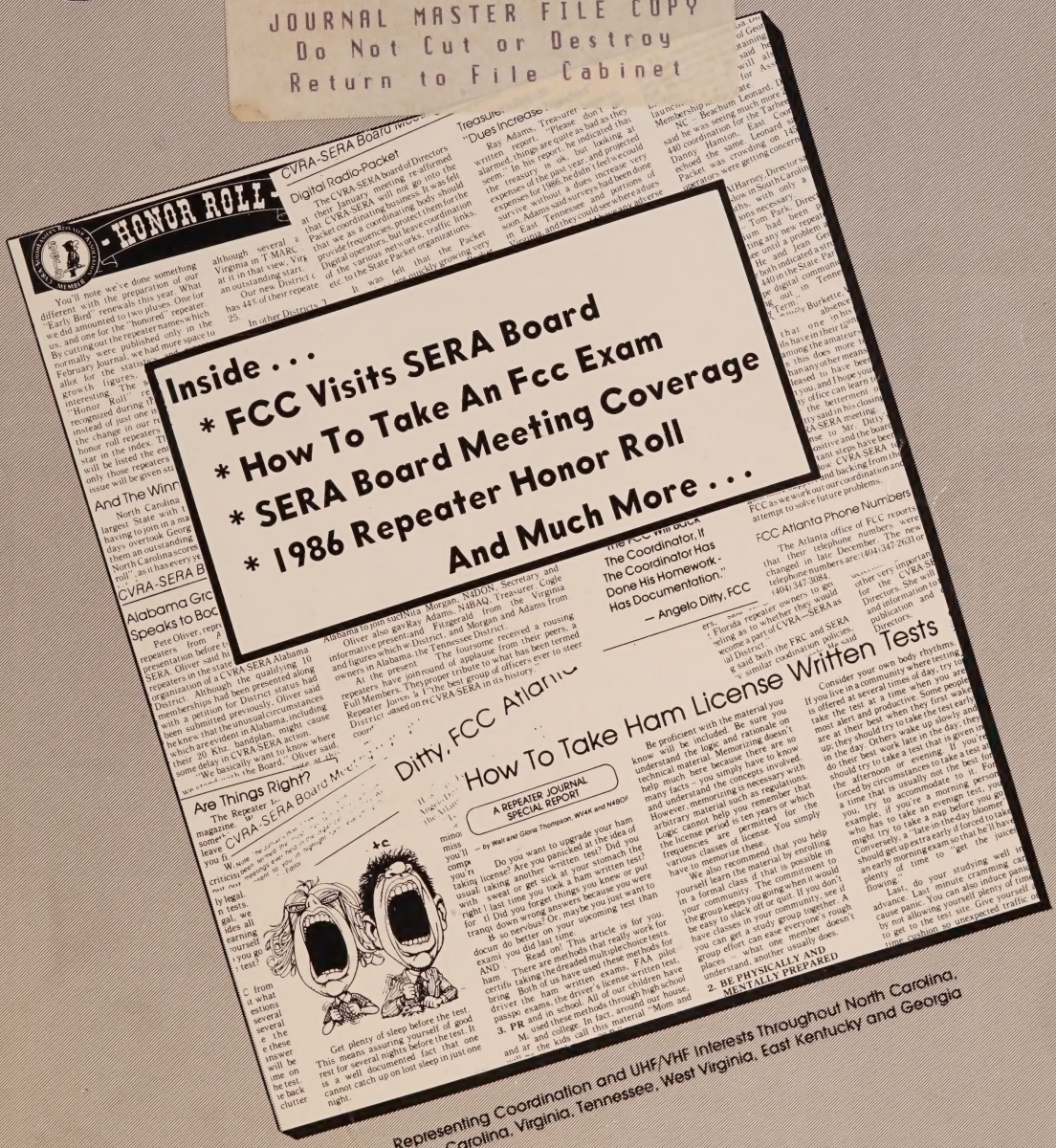
Inside . . .

* FCC Visits SERA Board
* How To Take An Fcc Exam
* SERA Board Meeting Coverage
* 1986 Repeater Honor Roll

And Much More . . .



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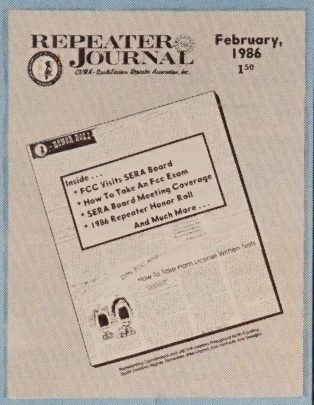
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• SERA Board Meeting Coverage
• SERA Board Meeting Honor Roll
• 1986 Repeater Honor Roll
And Much More . . .

ON THE COVER

A pile of pages covering important events of the past weeks for CVRA-SERA. 19 5 saw two more new Districts formed. 1986 sees two more looking. FCC Atlanta pledges support to coordinators, record numbers of repeaters signing up as Full Members and much more in this packed issue of the Journal.

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

FEB., MAR., APR.
VOLUME 15, NO. 1
ORGANIZED IN 1971
"IN OUR 15th YEAR"

Editorial Comment

In The "Spirit of '86". . .

Over the past couple of months, David Ward, KA4LVO and myself have struggled, juggled, and sweated. The figures just don't come out right. We know the solution to the problem, but we just can't come up with the right formula to formulate a working solution.

It's a simple matter of arithmetic. The revenue has to equal the expenses to survive, and there friends is where the problem lies. Rising costs in printing, postage, supplies and everything else have again caught us.

Any good businessman knows that the answer to the formula is to pass on the extra expense to the customer, but, our customers are you, the readers and supporters of CVRA-SERA. I cannot in good faith support ANY dues increases whatsoever for CVRA-SERA. I don't think it would be wise for us to increase prices again and again.

There is a simple answer to the problem. The biggest expense to the organization is naturally, the printing of the Journal and getting it mailed to each of you. Those of you familiar with the way pricing is done with printing, the cost per book drops as the number of books printed increases.

To me, this is the answer to the problem. Print more books, resulting in less cost per member. Sound simple?

Well first, we've got to get more member's to justify printing more books. I know now, someone is going to say, "wait a minute, aren't you big enough." My answer to that is "no we aren't". Our place in the United States is being forged as one of the forerunners, the council to pattern yourself after, the epitome of success. CVRA-SERA is the most copied, most patterned after organization of its type in the United States. Our by-laws and coordination policy have been re-written numerous times to suit other starting Repeater Councils, but our basic influence remains with them.

So big is our destiny, whether we want it or not. CVRA-SERA is a leader among leaders in the nation, the word is getting out.

In this case big is good. But, back to the point. Additional membership is healthy for any organization. In terms of Associate Membership, we are far from healthy. If you count the number of active hams in our 7 state territory, assume only half are on UHF/VHF, then we find that less than 14% of the hams are supporting our organizaiton. Fourteen percent is pitiful!

Each of you are asked to join clubs, repeaters, and dozens of other things which cost money. CVRA-SERA costs a mere $5.00 per year. The Repeater Journal alone should be worth that to you. But your $5.00 and the advertising revenues drawn from the Journal is the main force that keeps this organization going.

You might ask, "Aside from the Journal, what does CVRA-SERA do for me?"

How many repeaters can you work from your house. How many can you work in your car. How many can you work with your handheld. The number is incredible, isn't it. CVRA-SERA's presence keeps those repeaters clean, free from interference, and eliminates anyone from coming in and putting another machine on your home repeater's frequency near by. We help your club promote your hamfests. We provide

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Catch The Spirit of '86!

REPEATER JOURNAL

FEB., MAR., APR. 1986

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About the Repeater Journal . . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA-Southeastern Repeater Association, Inc., a non-profit coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL, provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations on request. The REPEATER JOURNAL press run is 4,500 copies with circulation membership in excess of 3,900 and is entered as Third Class Mail at the Post Office in Greensboro, N.C. REPEATER JOURNAL copies may also be obtained at most area hamfests for $1.25 per copy. All news and Newsletter exchanges should be mailed to the Editor and Publisher, Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $5.00 per year will enable members to support the organization and receive the "Repeater Journal". Note: Associate Membership deadlines are on the 15th of the month preceding months of publication – Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Greensboro Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive the next to be published Journal, but instead will receive the forthcoming issue the next quarter. Memberships received at hamfests will receive a current "Repeater Journal" as long as supplies are available and the next regularly scheduled issue through the mail.

About Full Repeater Membership . . .

Officers and Directors are elected from members of CVRA-SERA Full Membership. Any repeater owner or club may join our organization as a Full Member by filling out an application and submitting it with $8.00 annual membership fee. Two representatives are named for each membership and each receive the "Repeater Journal." The Full Member repeater is appropriately recognized as a full member repeater in our repeater index in the Journal. Full Memberships all expire on December 31 each calendar year.

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About CVRA-SERA. . .

CVRA-Southeastern Repeater Association, Inc. is one of the largest Non-Profit repeater councils in the U.S. In our 15th year of operation, CVRA-SERA territory covers over 900 repeaters in the member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the UHF/VHF spectrum of Amateur Radio.

-HONOR ROLL-

You'll note we've done something different with the preparation of our "Early Bird" renewals this year. What we did amounted to two pluses. One for us, and one for the "honored" repeater. By cutting out the repeater names which normally were published only in the February Journal, we had more space to allot for the statistics and repeater growth figures, which is quite interesting. The second thing, our "Honor Roll" repeaters will be recognized during the entire 1986 year instead of just one issue. You will note the change in our repeater index. Our honor roll repeaters are tabbed with a star in the index. This star designator will be listed the entire 1986 year and only those repeaters designated in this issue will be given stars.

And The Winner Is.....!

North Carolina did it again. The largest State with the most repeaters having to join in a mad dash the last few days overtook Georgia who was giving them an outstanding run for the money. North Carolina scores first on the "honor roll", as it has every year since we started tabulating, with a 52% renewal by January 18th. This represents 114 of the states 220 repeaters.

Our newest district has made a magnificent showing, scoring second place in numbers of renewals and in percentage. Georgia has renewed 91 of the state's 184 repeaters for a 49% renewal margin. This is absolutely outstanding for a new district, only 7 months old to achieve such a score. The credit is due to the fantastic communications the Director, Vice Director and other helpers have done in that State.

Virginia fell to 3rd place in total repeaters renewed and fourth in percentage. The Old Dominion renewed 72 of its 168 repeaters for a 43%. One thing should be noted however, Virginia's renewal percentage is based on ALL the repeaters in that state, although several are in Northern Virginia in T-MARC territory. Looking at it in that view, Virginia again scored an outstanding start.

Our new District of East Kentucky has 44% of their repeaters renewed, 11 of 25.

In other Districts, Tennessee fell in early renewals by almost 30% and came in with 49 of the state's 191 repeaters for 26%. South Carolina fell by almost 20% from early renewals last year and renewed 30 of its 83 repeaters for 36%. West Virginia has a slight gain over last year's start, with 26 of the 84 repeaters now Full Members for 31%.

Alabama which is not a CVRA-SERA District has 37 repeaters in that state supporting our organization as of this printing.

Totals in our seven districts amount to 356 repeaters of our 930, now renewed for 1986 for an overall percentage of 38%. Last year at this time, we had a 48% renewal figure, but it should be pointed out, we were counting only 5 districts with 721 repeaters. Actual repeater renewals in this period of 1985 was 321, compared with 356 this year.

Please read the chart below which gives a breakdown of repeater renewals by state at this same time for the years 1983 thru 1986. Alabama, Georgia and East Kentucky were not counted prior to 1986, and for the final percentage figures, Alabama is not counted in the 1986 tally of District numbers.

Full Memberships

State	1-19-86 Rptrs	1985 Rptrs	1984 Rptrs	1983 Rptrs	1986 % Of Total	Total All Rptrs
NC	114	98	83	100	52%	220
SC	30	38	35	24	36%	83
VA*	72	68	60	58	43%	168
WV	26	23	21	28	31%	84
TN	49	60	58	47	26%	191
GA	91	29	18	9	49%	184
EKY	11	5	4	1	44%	25
AL**	37	0	1	1	--	--
TOTALS	356	321	280	268	38%	930

*Northern Va. is in T-MARC Territory
**Alabama not District - Not counted in final total.

Repeaters Growth By Band Is Quite Enlightening

Obviously Packet, or Digipeters was the big growth thing from our standard measuring period, January to January as we have done over the past three years. This year, we have a total of 39 listed Digipeters (unattended, remotely controlled, 24-hour operated machines) in our territory.

Surprisingly, 440 continues to be the growth band for us, even though 220 mhz equipment has been readily available for the past 2 or 3 years even slightly cheaper in price than the comparable 440 mhz equipment. Six Meters has seen a little growth. The figures are based on repeater numbers in the original 5 States of CVRA-SERA prior to 1985 for accurate comparisons. 440 Mhz grew by 19 repeaters from Jan. 1985 to Jan. 1986, while 6-meters increased by 5 machines. Two meters and 220 remained exactly the same. (Obviously new machines came on the air for the bands, but an equal number shut down and ceased operation.) The chart below shows for the first 5 states listed our base comparison period from 1984 to date. Our two new districts of Georgia and East Kentucky show only 1986 figures and are added into the overall total of repeaters per band. PACKET or DIGIPETERS are NOT reflected in the repeater totals but will be kept separately since they are not considered coordinated Duplex operated machines.

Total Repeater Growth By State - By Band

(Numbers in the band columns indicate total for that band for 1984, 1985, 1986 respectively.)

STATE	10M	6M	2M	220	440	PKT	TOTALS (84-85-86)
NC	0-2-3	9-9-9	133-143-144	24-25-28	14-25-36	0-0-3	180-204-220
SC	0-0-0	3-2-3	60-62-63	4-8-5	5-9-12	0-0-3	72-81-83
TN	2-1-2	6-6-7	137-139-133	14-14-14	29-31-35	0-0-5	158-191-191
VA	1-3-2	15-14-12	104-111-108	7-10-10	25-37-36	0-0-4	152-175-168
WV	0-0-0	0-1-6	57-64-71	2-2-2	3-3-5	0-0-2	62-70-84
EKY*	0	0	22	2	1	0	25
GA*	2	3	142	12	25	19	184
'86 TOTALS	9	40	683	73	150	39	930
% of Rptrs	1%	4%	73%	8%	16%	--	--

*EKY & GA reflect 1986 totals only.

Are Things Right?

The Repeater Journal is your magazine. We want it to be something you enjoy reading and leave you with a good feeling when you finish your reading.

We want your comments, criticisms or complaints so we can put out a better magazine. Keep us on our toes, and we'll do a better job. Your comments may be sent to the Editor. His address is on Page 1.

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W4BFB

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SPECIAL SERVICE CLUB
ARRL

MARCH 22 - 23, 1986

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****
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*** $1000 PRIZE TO THE FASTEST LICENSED AMATEUR! ***
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ADMISSION AT 1983 PRICES!

PREREGISTRATION TICKETS: $5.00 : AT-THE-DOOR $6.00 (Valid both days)
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ADDITIONAL ROOMS at RADISSON PLAZA HOTEL, TWO NCNB PLAZA, CHARLOTTE, NC 28280, PHONE 704-377-0400
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CONTACT THE HOTEL OF YOUR CHOICE DIRECTLY

FOR INFORMATION, CONTACT:

EXHIBIT BOOTHS: Mary Weddle, WC4T, 227 Bennett Lane, Charlotte, NC, 28213, phone 704-596-2168
PREREGISTRATION: Jack Arnold, KD4JC, 1333 Picadilly Dr. Charlotte, NC, 28211, phone 704-366-2382
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C.W.CONTEST: Jack Mitchell, KA4FHS, 442 Mammoth Oaks Dr. Charlotte, NC, 28211, phone 704-366-2235

* PRE-REGISTRATION PRIZE *
* Kenwood TH21AT 2 Meter Handheld Transceiver *
(Drawing at 10:00 AM, Saturday)

* SPECIAL SATURDAY PRIZE *
* The New Kenwood 2550A 2-meter Transceiver *

* MAIN PRIZES *
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First	YAESU FT980 Transceiver
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Seventh	CUSHCRAFT 3219 2-meter Boomer Antenna
Eighth	MFJ Keyer Combo
Ninth	ASTRON 12A 12-volt Power Supply

1986 CHARLOTTE HAMFEST PREREGISTRATION REQUEST FORM

NAME:_____ CALL SIGN:_____

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CITY:_____ STATE:_____ ZIP CODE:_____

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MAIL Check, S.A.S.E and the completed request form to:
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Requests received without an S.A.S.E., or with an insufficient payment, or too late to return by mail, will be held at the door.

—compiled and written by
Wayne C. Williams, Editor

Note: The January Board meeting of CVRA-SERA has been termed the most important and progressive meetings ever held in the organizations history. We present to you in highlight form, everything that happened. - Editor

Board Meets January 18-19

KNOXVILLE, TN -- The CVRA-Southeastern Repeater Association, Inc. held its annual Board of Directors meeting in Knoxville, Tn. on January 18 and 19. All Districts were represented except West Virginia.

Special guests at the meeting included: Angelo Ditty and Rose Bond, FCC Atlanta, Ga., Pete Oliver from Alabama, George Waldie, Ohio Repeater Council and Thomas King, of the Florida Repeater Council.

The interum Saturday night meeting convened as members arrived in town. The main thrust of Saturday night was to cover various District reports, address any problems necessary and generally get acquainted. The group broke at 6 p.m. for dinner. The meeting resumed at 7:30 p.m. and continued until 10 p.m. The late meeting was mainly devoted to cluster discussions about common problems facing the organization, cross-merchandising with other repeater councils and general rag-chew.

Sunday morning at 7:30 a.m. the group, numbering about 25, met for "home style" breakfast served by the Ramada Inn staff. The formal meeting began at 8:30 a.m. with a break for lunch at noon and then continuing until about 3:30 p.m. as members who had flights to catch began to leave.

All officers were present. All states were represented except West Virginia, by either Directors or Vice-Directors or both. All appointees were also present.

Officers Installed

Rose Bond, of the FCC office in Atlanta installed the officers of CVRA-SERA at the beginning of the formal meeting Sunday morning.

Returning for another term of office was: Carter Cogle, K4ARO, President; Jim Fitzgerald, K4OJE, Vice President; Nita Morgan, N4DON, Secretary and Ray Adams, N4BAQ, Treasurer. Cogle and Fitzgerald from the Virginia District, and Morgan and Adams from the Tennessee District.

The foursome received a rousing round of applause from their peers, a proper tribute to what has been termed "the best group of officers ever to steer CVRA-SERA in its history."

Ditty, FCC Atlanta - Speaker

"The main thrust of what I hear is "How can FCC support us'?", began Angelo Ditty, FCC Engineer-in-charge of the Atlanta District office.

"I can tell you now, FCC needs your support too."

Angelo Ditty was the main speaker for the Annual Meeting of the CVRA-SERA board of Directors meeting in Knoxville, Jan. 18 and 19.

The FCC spokesman said his office is having more problems with repeaters, coordination and other things than ever before. He said he wants to rely on CVRA-SERA directly to handle 99% of these problems.

"The other 1% I'll take care of myself," he said.

Ditty said that CVRA-SERA in cases of problems should do all it can do, then if the problem is not solved, go to the FCC for help.

"Each field Director operates under the same quidelines from Washington", he said, "But each Director may handle a situation slightly different." "In my office, we are very conservative, if we have to handle the problem - we overkill."

The Director told the group that the most important thing they can do is to document everything. Get it all in writing, cross every "T" and dot every "I". He said CVRA-SERA will have to do their homework, keep the FCC informed as to how they are proceeding and how they are doing.

Ditty told the group that whenever you do a coordination, get everything down on paper, follow through and prepare yourself irregardless, so you will have all documentation necessary in case it is ever needed in the future.

Some of the warning signs Ditty told the group of Coordinators: (1) Don't get sucked into a corner. (2) Don't get stuck behind a ultimatum you cannot back up. (3) The FCC will not take action until all documentation is in their hands.

Ditty said he has recognized Amateur coordination for some time and has supported local coordination. He said he wants to be kept abreast of all the coordinators in his District, who they are, where they can be reached and what their duties are.

"The FCC Will Back The Coordinator, If The Coordinator Has Done His Homework - Has Documentation."

— Angelo Ditty, FCC

"If you have a problem with an individual or a repeater," Ditty said, "The FCC will back the coordinator - if that coordinator has done his homework and has all the documentation." "Don't take anything verbally - get it in writing."

The FCC spokesman said that there are lots of repeaters around who have been on the air for years, long before coordinating councils were organized. In their situation, they may need to be grandfathered into coordination - this is a problem that CVRA-SERA and other Councils need to look into.

Resolving problems takes time - you cannot rush a situation unless its a matter of life or safety. A guilty party should be given the time to correct a problem or make a change.

The Engineer-in-charge told the board that CVRA-SERA needs to refine and update its coordination policy - getting it into a uniform procedure.

Ditty said he could not speak for other District engineers, but if CVRA-SERA coordinated, did their job, documented, he would back us as a coordinating organization.

He said the Atlanta office is divided into two divisions; (1) Public Service, headed by Rose Bond, and Enforcement, which he heads. If a problem or interpretation is presented to the Public Service office, and they cannot handle it, it then becomes a part of enforcement.

Ditty said, "No enforcement will be enacted on any amateur or individual who comes into our office for assistance, as long as they are willing to work or change."

Ditty said that one thing coordinating councils have in their favor is "peer pressure" among the amateurs. He said sometimes this does more to correct a situation than any other means.

"I am very pleased to have been invited to meet with you, and I hope your organization and my office can learn to work together for the betterment of Amateur radio," Ditty said in his closing remarks to the CVRA-SERA meeting.

Overall response to Mr. Ditty's remarks was very positive and the board felt that very important steps have been taken that will allow CVRA-SERA to gain more support and backing from the FCC as we work out our coordination and attempt to solve future problems.

FCC Atlanta Phone Numbers

The Atlanta office of FCC reports that their telephone numbers were changed in late December. The new telephone numbers are: (404) 347-2631 or (404) 347-3084.

Alabama Group Speaks to Board

Pete Oliver, representing a group of repeaters from Alabama made a presentation before the board of CVRA-SERA. Oliver said his goal is to poll all repeaters in the state of Alabama for the organization of a CVRA-SERA Alabama District. Although the qualifying 10 memberships had been presented along with a petition for District status had been submitted previously, Oliver said he knew that the unusual circumstances which are evident in Alabama, including their 20 Khz. bandplan, might cause some delay in CVRA-SERA action.

"We basically want to know where we stand with the Board," Oliver said, "We are not expecting a vote at this time."

He said that the Christmas and New Year's holidays had delayed them in getting out correspondence and replys necessary to give a full report at the January meeting, but he expected things to jell within the next four weeks or so.

After much discussion, the board agreed that since there were several problems to iron out, and since a substantial number of repeater owners needed to be still contacted, and because of the differing band plan from that of CVRA-SERA, it would be best to postpone the vote for District status.

The Board told Oliver that if the State of Alabama wanted to come into CVRA-SERA at a later time, when obstacles were overcome, then it was felt there would be no opposition and Alabama would be very welcome and an asset to CVRA-SERA.

"We want to join," Oliver said, "We have a large following which is growing larger each day." "We like the way CVRA-SERA operates and believe it would be good for the Amateurs in Alabama to join such an organization."

Oliver also gave the board a very informative presentation booklet of facts and figures which was mailed to repeater owners in Alabama.

At the present time, 37 Alabama repeaters have joined CVRA-SERA as Full Members. They will be listed in the Repeater Journal. Since they have no District Status, no CVRA-SERA coordination can be allowed, however, the organization is grateful for their faith in us and they are most welcome.

Associate Membership

The Associate Membership agenda at the board meeting drew many comments and responses. The overall attitude of the group seemed that much needed to be done in this area.

Jim Fitzgerald and Lindsay Cleveland told the group how successful it was to set up at hamfests and solicit memberships.

Fitzgerald said that every hamfest he had been to in Virginia, he was given free booth space and welcomed by the sponsoring clubs. It was felt that Directors and Vice-Directors of each District could find persons who would be willing to man booths at local hamfests and solicit Associate Membership.

Williams, Journal Editor said that it was time CVRA-SERA started promoted itself through hamfests, local club publications and on nets in the 7 states.

"We've filled our Journal pages with publicity from clubs, hamfests, repeaters and everything else for years," Williams said, "Maybe we need to blow our own horn a little more, and get our exisiting members to go out and help us."

Directors Told To Update Their Files

In light of the recommendations of FCC in local coordination, the CVRA-SERA Directors were urged to revamp their files on repeaters in their Districts. Many repeater owners will be getting forms to fill out, asking about coordination information, similar to forms received by full members during their last renewal.

Directors will have to go through all the repeaters in their District ultimately.

Repeater owners are asked to cooperate with the Director and help him with the paperwork, which will be in everyone's best interest.

Tax Deductible Donations

Ray Adams, treasurer noted to the board that CVRA-SERA had received a couple of very nice donations from individuals who wished to remain anonymous. He said that since CVRA-SERA is a Non-Profit organization under IRS rules, anyone making donations such as this could claim the donations as a tax deduction. He said that any such persons who mail in donations to CVRA-SERA will be sent back a Tax Exempt Form, allowing them to legally deduct the donation from their taxes.

"I might add," Adams said, "Our organization certainly appreciates and will certainly accept any donations made to us by the ham community."

Repeater Journal

Wayne Williams, Editor of the Repeater Journal said he planned strategic cutbacks in the book which would reduce cost, since the Journal represents about 90% of the expenses of the organization.

"We have killed the idea of full color on the covers for the time being," he said.

Other measures include eliminating the duplication of having repeaters listed both by frequency and by city-by-state. The by-frequency index will be cut from most Journals and will only run once or twice a year. He said long stories will be cut down to preserve space. The press run will be cut to almost what is needed to mail out on the mailing list.

New things we have incorporated in the Journal which took additional space includes the complete Georgia index, the partial Full Member only Alabama index, and a symbols box on at least one of every two facing pages. Adding packet repeaters also took additional space.

Coordination Fees

The subject of charging for coordination was brought up. It was brought out that phone calls, letters, documentation and time for searching and coordination of a frequency was very costly to the organization. Broadcasting, Land Mobile and all other services have to pay for frequency search and coordination.

President Cogle, named a committee to look into this and report back at the Shelby meeting. The committee is comprised of Tom Park, Dir., Tn.; Jim Abercrombie, Dir., Ga.; and Danny Hampton, NC, chairman.

Ohio Repeater Council

George Waldie, of the Ohio Repeater Council reported to the board that another National coordinator's conference was planned this year at the Dayton Hamvention. He said he would be very pleased to have representation from CVRA-SERA.

The group made a motion to send Ray Adams and Jean Geisler to the conference. The motion was passed unanimously.

West Virginia

President Cogle was directed by the board to draft a letter and mail to all Full Members in West Virginia, advising them that they did not have an official spokesman in the form of a Director or Vice-Director. According to CVRA-SERA Constitution and By-Laws, a Director and Vice-Director MUST be a repeater representative Full Member. As of the meeting on January 19, they had none.

The WV Full Members will be asked to submit names or what their future desires might be.

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Digital Radio-Packet

The CVRA-SERA board of Directors at their January meeting re-affirmed that CVRA-SERA will not go into the Packet coordinating business. It was felt that we as a coordinating body should provide frequencies, protect them for the Digital operators, but leave coordination of the various networks, traffic links, etc. to the State Packet organizations.

It was felt that the Packet organizations are quickly growing very strong, have ties with other Packet organizations and would be in much better positions to coordinate packet radio that CVRA-SERA.

Packet councils are invited to contact or work with their local CVRA-SERA State Director for information and assistance when needed.

Digital Band Plans

About a year ago, CVRA-SERA set aside frequencies for exclusive Digital or packet use in its territory on 2-meters. At the January meeting, the group approved a 220 and 440 mhz bandplan for Packet and Digital communications.

It was brought out that a packet digipeter operating on a simplex mode, should use frequencies in the Digital band plan. If packet were being used on an offset split pair, it MUST be coordinated in the regular FM repeater portion of the band, utilizing both input and output of that repeater pair, an operation similar to repeaters set aside for RTTY and TV.

Digital & Packet Bandplans

Two-Meters

145.01	145.03
145.05	145.07
145.09	

220 Mhz (221.0 thru 221.5 Mhz)

221.05	221.15
221.25	221.35
221.45	

It was noted that some repeaters still have control or links operating on these frequencies. The board suggested that Directors be available to coordinate new frequencies outside the Digital-Packet bandplan for linking and control on 220 mhz. Repeater owners in this portion of the band should contact your Director for new frequency assignment.

440 Mhz.(430.0 thru 431.0)

430.05	430.15
430.25	430.35
430.45	430.55
430.65	430.85
430.95	

It should be noted that the frequency of 430.75 has been reserved for ATV inputs and should not be used for Digital or Packet communications.

Treasurer's Report "Dues Increase Needed"

Ray Adams, Treasurer began his written report, "Please don't get alarmed, things are not as bad as they seem." In his report, he indicated that the treasury is ok, but looking at expenses of the past year, and projected expenses for 1986, he didn't feel we could survive without a dues increase very soon. Adams said surveys had been done in East Tennessee and portions of Virginia, and they could see where a dues increase of $6.00 would not have any adverse effect on membership numbers.

Adams pointed out that the November Journal cost the organization $1.37 per copy to print and distribute. "We cannot survive with much more of this", he said, "especially when we're collecting only $1.25 per issue in membership."

There was much discussion among those present. Williams, editor of the Journal, noted that cutbacks were planned in the February Journal to recoup some of the losses from November. He also said that Advertising Rates had already been increased in anticipation of the Board wanting this to be done.

After presenting to the board a "Spirt of '86" campaign which was to start in the February Journal, Williams proposed the board might hold off considering a price increase until it could be shown success in the Membership campaign.

The board agreed and decided to postpone action on any dues increase until July 1, at which time the President, Treasurer and Publisher will make the final determination.

District Reports

GA-- Jim Abercrombie, Ga. Director indicated that the District of Georgia is continuing its work on obtaining more Full Membership. He said he and Lindsay Cleveland will also be launching a drive for Associate Membership in that state.

NC -- Beachum Leonard, Director said he was seeing much more 220 and 440 coordination for the Tarheel State. Danny Hampton, East Coordinator echoed the same. Leonard said that Packet was crowding on 145.01 and operators were getting concerned about that.

SC -- Al Harney, Director said things had been slow in South Carolina the past few months, with only a few new coordinations necessary.

TN -- Tom Park, Director said a moritorium had been placed on coordinating any new repeaters in East Tennessee until a problem area can be solved. He and Jean Geisler, Vice-Director both indicated a strong surge in 220 and 440 in the State. Park reported a new type digital communications was breaking out in Tennessee called "Buddy Term."

VA -- Wally Burkette, Vice-Director speaking in the absence of the Va. Director said things in his portion of the State (East) were going well, and repeated that cooperation with neighboring T-MARC continued to be a great asset for him.

WV -- There were no reports given.

EKY -- Terry Estes, Vice-Director said things had smoothed down very well in Eastern Kentucky. They were concentrating on Full and Associate Membership at this time.

Florida Repeater Council Spokesman

Tom King, of the Florida Repeater Council spoke to CVRA-SERA board members at the annual meeting. He said that the FRC had been watching CVRA-SERA for some time now, and were very impressed.

"We feel there is strength in numbers," said King, "And we are polling Florida repeater owners to get their feeling as to whether they would like to become a part of CVRA—SERA as an official District."

King said both the FRC and SERA have very similar coodination policies, the same ideals and principals. He said that there are presently about 556 repeaters in Florida.

Their immediate plans were to contact repeater owners and hold seminars concerning CVRA-SERA at the upcoming Orlando and Miami hamfests.

FCC Liaison Officer

Carter Cogle, President introduced Rose Bond, of the Public Relations staff, FCC Atlanta as CVRA-SERA new FCC Liaison Officer.

"Her position on our Board will be of great help to both the FCC, and to our organization," Cogle said.

Mrs. Bond will be available for consultation, answering questions, determining rule interpretations and other very important FCC related items for the CVRA-SERA officers and Directors. She will feed late FCC news and information to the Journal editor for publication and distribution to the Directors.

The new FCC Liaison officer replaces F.L. Warfard, W4AZA who will retain the post of Technical Advisor for CVRA-SERA.

How To Take Ham License Written Tests

A REPEATER JOURNAL SPECIAL REPORT

— by Walt and Gloria Thompson, WV4K and N4BOF

Do you want to upgrade your ham license? Are you panicked at the idea of taking another written test? Did you sweat or get sick at your stomach the last time you took a ham written test? Did you forget things you knew or put down wrong answers because you were so nervous? Or, maybe you just want to do better on your upcoming test than you did last time.

Read on! This article is for you. There are methods that really work for taking the dreaded multiple choice tests. Both of us have used these methods for the ham written exams, FAA pilot exams, the driver's license written test, and in school. All of our children have used these methods through high school and college. In fact, around our house, the kids call this material "Mom and Dad's Lecture 39-B."

All of these hints are perfectly legal. We do not advocate cheating on tests. The FCC says cheating is illegal, we believe it is unethical, and besides all that, it takes more time than learning the material and preparing yourself properly for the test. So, how do you go about preparing yourself for the test?

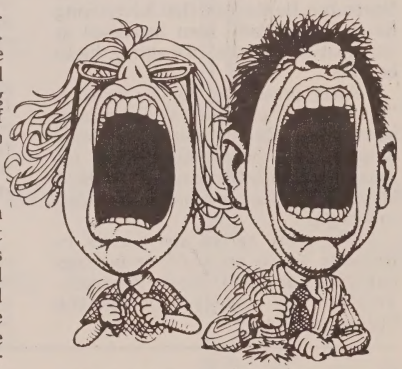
1. KNOW THE MATERIAL

Be prepared. Ask the VEC from whom you intend to take the test what study guide is used for their questions and answers. If there are several possible VEC's, there may be several possible study guides. Use the appropriate study guides because these contain the actual questions and answer choices from which your test will be selected. Do not waste your time on material you know won't be on the test. If it's valuable stuff, you can come back to it later -- after the test. Don't clutter up your mind now.

Be proficient with the material you know will be included. Be sure you understand the logic and rationale on technical material. Memorizing doesn't help much here because there are so many facts -- you simply have to know and understand the concepts involved. However, memorizing is necessary with arbitrary material such as regulations. Logic cannot help you remember that the license period is ten years or which frequencies are permitted for the various classes of license. You simply have to memorize these.

We also recommend that you help yourself learn the material by enrolling in a formal class if that is possible in your community. The commitment to the group keeps you going when it would be easy to slack off or quit. If you don't have classes in your community, see if you can get a study group together. A group effort can ease everyone's rough places -- what one member doesn't understand, another usually does.

2. BE PHYSICALLY AND MENTALLY PREPARED



Get plenty of sleep before the test. This means assuring yourself of good rest for several nights before the test. It is a well documented fact that one cannot catch up on lost sleep in just one night.

Consider your own body rhythms. If you live in a community where testing is offered at several times of day, try to take the test at a time when you are most alert and productive. Some people are at their best when they first wake up; they should try to take the test early in the day. Others wake up slowly and do their best work late in the day; they should try to take a test that is given in the afternoon or evening. If you're forced by circumstances to take a test at a time that is usually not the best for you, try to accommodate to it. For example, if you're a morning person who has to take an evenign test, you might try to take a nap before you go. Conversely, a "late-in-the-day bloomer" should get up extra early if forced to take an early morning exam so that he'll have plenty of time to "get the juices flowing."

Last, do your studying well in advance. Last minute cramming can cause panic. You can also induce panic by not allowing yourself plenty of time to get to the test site. Give yourself a time cushion so unexpected traffic or minor car trouble won't cause you to miss the test. If everything goes well, you'll arrive early and have time to compose yourself before the test. Once you're at the test site, don't let others taking the test talk you into a panic. We usually find it's a good rule not to talk with anyone about the test material right before he test. One more reminder for the panic-stricken: alcohol and tranquilizers are absolute no-no's.

Be sure you have with you all the documents you will need for the examiner. You should take ORIGINALS AND PHOTOCOPIES of your current ham license AND any code credit certificates you have. You must also bring a photo identification such as a driver's license, military ID, or passport.

3. PREPARE A LIST

Make a list of formulas, equations, and arbitrary facts that you think you will need to know. Take it with you to the test and review it just before you go into the test room. Throw it away or give it to the examiner when you pick up your test material. As soon as you are seated, while it is still fresh on your mind and not mixed up with material you've seen on the test, write down on your working papers anything you are likely to forget.

4. KNOW THE RULES OF THE TEST

There is not set time limit for taking a ham exam (even though the examiners will not spend the night with you), so you need not be in a rush.

Continued on Next Page

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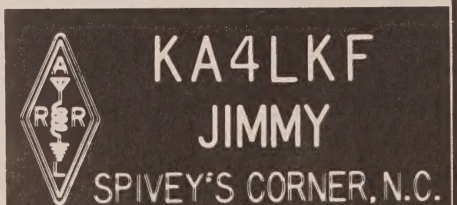

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How To Take A Written Test

Continued from Page 10

Wrong answers do not count against your right answers, so you should answer SOMETHING on every question. More on this subject later.

Slide rules and non-programmed calculators are permitted. Do the examiners a favor and take your simplest calculator with you so they won't have to wonder if it's legal or illegal or try to de-program it.

The ham tests can be worked in any order you choose. You are always free to go back to a question earlier on the test. More about how to use this to your advantage later in the article.

You should be careful not to impose unnecessary restrictions on yourself. If there's not a rule against it, there's no reason you should make one for yourself alone.

5. ANSWERING THE QUESTIONS

Go through the test and answer those questions for which you know the answer. If you are unsure of the answer or the question requires calculations, skip it for the time being. In answering questions, read the question carefully and try to identify what is desired. Read all the answers carefully, and pick out the right answer. Now, check yourself by making sure that the other answers are wrong. At this point, you should know why the answer you selected is right and why the others are wrong.

Now, do it again. That is, answer the questions to which you NOW know the answers. It is almost impossible to construct a multiple choice test without giving the answer, or at least a clue to the answer, in some other question. Just working through the test, some questions or answers will give you information that you might have forgotten during the first pass through the test.

Next, answer the questions that require calculations.

At least some of the remaining questions may be answered by elimination. You do not need to know the RIGHT answer to a question. The right answer is on the test -- all you have to do is find it! If you can eliminate all but one answer as being wrong, you have found the right answer even if you do not know why it is right.

Now it's guessing time. Since wrong answers do not count against your right answers on the ham exams, you should never leave any answer blank. You might get it by chance. You should improve your chances by eliminating any known wrong answers from those you guess among.

Answer the questions one at a time. When you have answered a question, put it behind you. It is a risky business to change an answer once you have marked it down. There is a high probability that your first answer is the right answer. Of course, if you realize that you misread a question or answer choice, change the answer to the one you now know is the correct one.

Check to be sure you have answered all the questions. Also check to be sure you have complied with all the rules of the test. Name and date written where they should be? Answers marked in the right place? Working papers signed?

6. USE THE TEST AS A LEARNING EXPERIENCE

You may have to take it over if you do not pass. What was asked that you did not know? Do you need to spend more time on the logic areas or the memory areas? Was there any question that surprised you? If you passed, you may be taking another exam later to upgrade. What was there about the test that you can use to your benefit later on? Write down your comments as soon as possible.

Try to predict your grade. Comparison of your prediction with your actual grade is a good measure of your understanding of the material and the testing style.

7. TRY TO KEEP YOUR EMOTIONS IN CHECK

Frustration and panic can cause you to fail a test. If you feel your blood pressure rising, stop a moment and regroup your mental resources. Practice relaxing in stressful situations.

If you fail a test, you can begin to believe that the test is more difficult than it actually is. This is particularly true if you were not well prepared. If you have the opportunity to take a test when you're not well prepared, go ahead. But remember tht failure is to be expected and don't let it get you down.

8. IRREGULARITIES

If you note any irregularity in the test, bring it to the attention of an examiner immediately. Things to watch for are missing pages, answers marked on the test questions themselves, poor quality printing that you cannot read, and typographical errors. These are things that can be taken care of even though the examiner is prohibited from commenting on or interpreting questions for you.

We believe that taking the ham written exams methodically can dramatically improve your success rate. Your scores will be higher, and your blood pressure will be lower. There is no reason to fail a test you could have passed with the right approach, and, using these rules, you should never fail again.

Catch The Spirit of '86!

Help support CVRA-SERA who supports you. We badly need more Associate Members (repeater users).

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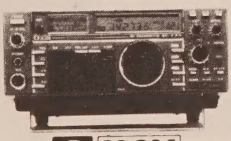

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The Parrots Speak Out!

The CVRA-SERA Parrots got together for a mini-convention, while the humans met at the Board of Directors meeting in Knoxville. The main topic of conversation of most all of the District Parrots was their loneliness.

"We just don't have enough Associate Membership humans to keep us company," said SC-Parrot.

"I know what you mean," VA-Parrot replied, "I mean right over there in my District of Virginia, we have only about 500 Amateurs who support our cause."

"What can we do, what can we do," chimed in TN-Parrot.

I'm not sure," replied the senior NC-Parrot, "I've been with CVRA-SERA since it began in 1971, and I've never seen it this bad before. Maybe those humans just don't like us any more."

"Sniff. . . How can that be," cried GA-Parrot, "I just joined you folks, and you tell me people don't like us!!!!"

"I don't really believe that's the problem," began the SC-Parrot, "I think our main problem is that we just haven't taken the time to promote ourselves enough. We've been too busy promoting clubs, hamfests, bandplans, repeaters and coordination and we just haven't made those humans realize that we need their support."

"That's right," chimed in the VA-Parrot, "I joined the group in 1973, and I don't remember much promotion in my District. I think the humans who use the repeaters in our area just don't stop to realize who is responsible for making 2-meters what it is today, I mean, those human owners put on those machines, but who set up a band plan, even before ARRL set up a band plan? Who got coordination started first in the North Carolina area, then Virginia and South Carolina, in Tennessee and West Virginia. . . . we helped! If we hadn't been there, there would have been none to coordinate who puts a repeater where and our humans would have a real mess on their hands."

"I agree," said NC-Parrot, "Suppose we hadn't been around when Danny, K4ITL put on his big repeater on 28-88. Suppose someone had come along and put another repeater on 28-88 just a few miles away, boy, what a mess that would have been."

"Right," said SC-Parrot, "Suppose some of our 'Packet people' decided to put digipeters on 146.52, only to discover that someone else was using 52 as a "secret" input to their linked repeater system! Boy you talking about a mess!"

"I know what you guys mean!" chimed EKY-Parrot, "we just joined the organization last year, after years of frustration of trying to get our humans coordination. Fortunately we don't have too many problems to deal with, but now that CVRA-SERA is in command in my territory, I think our humans who own and use repeaters feel a lot better about how our bands and frequencies are being taken care of."

"Hey. . . .!!! Don't leave us guys in Georgia," yelled GA-Parrot, "We kinda had the same problem. We just didn't seem to be able to get it together as far as overall state-wide coordination is concerned, and now, under the influence of CVRA-SERA, our humans are working together like never before."

"I guess we'll just have to educate those human repeater users that CVRA-SERA is more important to them than they ever realized and will be even more important as the future comes upon us," said EKY-Parrot.

"I make a motion," yelled SC-Parrot, flapping his wings wildly, "That we birds stick together and fly to the four corners of our districts and tell one and all of the importance of CVRA-SERA. Let's remind everyone that CVRA-SERA Associate Membership is a VERY small price to pay! Lets spread the word to all the clubs, all the hamfests, on all the repeaters that the 'in' thing is to be an Associate Member of CVRA-SERA."

"I second," squawked NC-Parrot.

"All in favor, signify by raising your right wing, said SERA-Boss-Parrot. . . . . "Unanimous!"

"Hooray!" said VA-Parrot.

"Hooray!" said NC-Parrot.

"Hooray!" said SC-Parrot.

"Hooray. . . hooray. . . hooray," chimed in TN-Parrot, WV-Parrot and GA-Parrot.

"We're gonna have company, and we won't be lonesome anymore," Squawked EKY-Parrot.

"Ok. . . ok. . . everybody, let's calm down," said Boss SERA-Parrot, let's go to Wayne-Editor and get him to tell all those humans what we have decided. Maybe he will help us spread the word and help us get more Associate Membership humans."

"One moment, before we leave," said Boss Parrot, "we want TN-Parrot, our secretary, to read off the Associate Membership totals for each District of CVRA-SERA."

"Do I have to!," moaned TN—Parrot.

"Yes, we need those figures," replied Boss Parrot.

"It's awfully embarassing," whispered TN-Parrot.

"I know, but read them anyway. . . because the Boss said to."

"Ok, you asked for it, but nobody gets mad. . . okay," paused TN-Parrot. "The latest Associate Membership figures at the end of 1985 are about 250 less than at the beginning of the year." By State, they are: GA-124, NC-1221, SC-266, TN-253, VA-518, WV-110 and EKY-53. Other areas include ALA-13 and FLA-18, plus 70 free memberships to FCC officials, other coordination councils, ARRL, etc."

"AWK!!! AWK!!!. . . AWARRRRK!. . . . ." said Boss-Parrot.

"I told you it was embarrasing," said TN-Parrot.

"Let's adjourn before I start pulling tail feathers."

Repeater Owners Turning In Their Coordination Forms

Along with their renewal forms for Full Membership this year, repeater owners received a form to fill out, which updates their coordination, and allows them to put dates, times and persons involved in their coordination.

According to the Full Membership staff, the return on these forms has been over 90% from repeater owners who received them.

The coordination forms have been copied, along with all notes and information contained within the full membership form and forwarded to your Director. This valuable information will re-affirm your information on coordination and give your Director a cross reference in case original documentation is needed for some future reason.

We thank you for your assistance. Every piece of information that your Director has about your repeater will be of great value to you and him in future coordinations.

Those of you who were not coordinated originally, lack paperwork, in a new district and not on the CVRA-SERA bandplan, and asked that your Director contact you, be assured your request has been passed on to him. He should be contacting you for any assistance you may desire.

Any repeater owners who did not fill out a coordination form, may obtain one from any of the staff of CVRA-SERA, or your State Director. It is to your advantage that we have the information on file.

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N.C. Packet Organizational Meeting Held

Fifteen Radio Amateurs from throughout Western North Carolina met in Statesville on January 11 to discuss packet radio operations and to identify and plan to solve potential problems with the mode.

WD8SAS, Bill, from Concord, organized and scheduled the meeting and packet enthusiasts from Morganton, Hickory, Statesville, Charlotte, Winston-Salem and points east attended.

The purpose of the gathering was primarily to allow packet operators to meet other packet ops, or those interested in packet, and to see if there was a need for and an interest in establishing a state-wide organization devoted to packet radio.

Those present all felt that an association of packet operators was necessary and that the association could do a lot toward improving packet operation in the State by solving common problems, helping new operators and advancing the state-of-the-art of packet radio.

The group will call itself the "NORTH CAROLINA PACKET ASSOCIATION (NCPA)" and voted the avoid the typical trappings of new organizations such as by-laws, constitutions, officers, etc., if at all possible. The intent of the group was to maintain a loose-knit, semi-formal organization devoted to operating, rather than meeting or voting.

3 major areas of concern were identified and sub-committees were appointed to evaluate these concerns and to return to the group at a later meeting with suggested or proposed plans of action.

The technical committee, chaired by KB4NHB, Bob, will examine things like whether digi-peater coordination is necessary, computer-TNC interfacing and software, wide-area vs. local digipeaters, technical standards for TNC's and digipeaters, etc. The technical committee will also be available for help and assistance to new packet operators, will maintain a technical library for the group and keep the group appraised of new developments in the area of packet radio.

The operations committee, chaired by W4RXG, Beachum, will evaluate areas of frequency usage, local protocol requirements, coordination of bulletin boards and route-servers, etc., local and wide area networks, routings, etc.

The administration committee, chaired by Brad, WA4LWE, was charged with maintaining a mailing list of all interested packeteers, publishing a map of packet repeaters and operators and establishing a newsletter for packet afficianados.

Several other concerns of packet operators were identified and scheduled for discussion at the next meeting. Reports from the 3 committees were also scheduled for discussion then.

The group voted to meeta at 12:00 Noon the first day of every Hamfest in North Carolina making the Elkin Hamfest, on Sunday, February 16, the site of the next formal meeting. However, because of the flexibility of packet radio, meetings, newsletter distribution, bulletins, and technical information can and will be disseminated over the air or will be on the packet or RTTY bulletin boards.

All current packet operators, future packet operators and anybody interested in packet is invited to participate in the activities of the group. Contact any of the above operators for further information or contact Brad, WA4LWE to get on the mailing list for publications.

He can be reached at: Brad Thomas, WA4LWE, P.O. Box 608, Pilot Mountain, N.C. 27401. Telephone (Work) 919-368-2291 or (Home) 919-368-2875.

VEC EXAMINATIONS

1986 SE Virginia Amateur Radio Exam Schedule

The following is a schedule of VE Amateur Exams in Southeast Virginia.

March 1, Hampton Roads Radio Assn. - Contact: H.E. Boomhower AA4MB, 1900 Athens Ct., Chesapeake, VA 23323.

April 5, Williamsburg Area Amateur Radio Club - Contact: Andrew G. Swanson WJ4X, 259 Nottingham Rd., Williamsburg, VA 23185.

May 3, South Peninsula Amateur Radio Klub - Contact: Al Evans N4IIC, P.O. Box 4128, Hampton, VA 23664.

June 7, Portsmouth Amateur Radio Club - Contact: George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, VA 23703.

July 12, Virginia Beach Amateur Radio Club - Contact: Tom Weikel KA4UNC, 433 W. Farmington Rd., Virginia Beach, VA 23454.

August 2, Hampton Roads Radio Assn. - Contact: H.E. Boomhomer AA4MB, 1900 Athens Ct., Chesapeake, VA 23323.

August 24, ARRL Roanoke Division Convention - Virginia Beach, VA. Contact: David House N4LOW 4 Aylwin Crescent, Portsmouth, VA 23702.

September 6, Williamsburg Area Amateur Radio Club - Contact: Andrew G. Swanson WJ4X, 259 Nottingham Rd., Williamsburg, VA 23185.

November 1, South Peninsula Amateur Radio Klub - Contact: Al Evans N4IIC, P.O. Box 4128, Hampton, VA 23664.

December 6, Portsmouth Amateur Radio Club - Contact: George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, VA 23703.

To apply, send form 610 and copy of current license with $4.25 check, payable to ARRL/VEC to contact person. Enclose SASE for confirmation. Cut-off date for applications is 30 days prior to test.

NORTH CAROLINA
WCARS/VEC-Raleigh VE

Exams will be held at Kilgore Hall, NCSU Campus in Raleigh at 8:00 a.m. Pre-registration preferred, completed 610 Form (dtd after June 1984), copy of current License, I.D. rqrd, original license and Drivers license.

For registration, mail check for $4.00, made out to WCARS-VEC, along with completed 610 form, and copy of license to: J.M. Johnson, WM4P, 2118 Lyndhurst Dr., Raleigh, N.C. Send SASE for confirmation & map.

RALEIGH SCHEDULE
May 10, 1986 and August 2, 1986

AE4N/MARK 4 VEC
Gbo/Jamestown

FCC exams to be conducted twice a month in 1986, at the GTCC, Davis Hall in Jamestown, N.C. Walk-in--Cost $3.00. Bring original and a copy of license, and some positive I.D. All classes of license exams are given and all testing materials are furnished. Any questions may be directed to Hugh Brunson (919) 852-1087 1900-2000 EST daily.

JAMESTOWN SCHEDULE
2nd Saturday each month at 9:00 a.m.
Last Friday each month at 7 p.m.

PDCS Meets - New Officers Elected for 1986 Term

The Piedmont (NC) Digital Communications Society (PDCS) met in January and at their regular monthly meeting installed new officers for the new year. They are: President, Beachum Leonard, W4RXG; Vice-President, Tom Smith, WD4AEH; and Sec./Treas., Mike Culbreth, WB4CZJ.

In order to promote activity on the PDCS 223.10/224.70 repeater, the membership present voted to return the system to 60 WPM Baudot. The PDCS MBO will also be set to default to 60 WPM Baudot. This will allow older teletype equipment to be used in the auto-start mode as in the old days. Packet transmissions are permitted as the tones should not interfere with the TTY tone pairs.

Observations On Marrying A Ham

(Editor's Note: J. Tom Park, WD4KWP our CVRA-SERA Tennessee Director rates our highest award of the year for his outstanding coordination effort.

— by Sandy Park

I should have been prepared. After all, Tom and I had dated for almost three years before tying the knot. During most of that time I had grown accustomed to moving microphones from the passenger seat in his car and hearing strange da dit das pop up right in the middle of some extremely romantic moment --- BUT, I soon discovered, 'tis true. . . you don't really know a ham until you live with one.

Marrying a ham is one of life's more interesting twists. On the day I became Mrs. J. Tom Park (or should I say, Mrs. WD4KWP), while cameras flashed and congratulations were heard all around, my husband, nervously twisting the newly acquired wedding ring on his left hand, did not breathe his first natural breath until one of his ham buddies handed him a brick. (Bricks, as every Tennessee ham wife learns, are not building materials. . . instead they are those strange looking things that I thought only policemen carried preTom.) From that moment on, my beloved was in his true element.

At the reception he quickly surrounded himself with fellow hams (they even had a call-in frequency determined to offer directions to traveling guests) and his "wedding day smile" emerged into the real thing. Thinking back, I believe even his "monkey suit" (tuxedo) would have been more endurable if it had provided a place for his brick, but he did manage to relinquish custody of the radio long enough to repeat his vows. Ham's brides are thankful for such minor miracles.

He was not alone in feeling relief at the reception. I breathed a little sigh myself. Not just because it was the culmination of months of planning and showed no glaring materials for television's "Bloopers and Blunders"; but because Tom's Repeater Association friends had failed in their attempts at locating a parrot suit to wear to our party. As much as I love Tom, and as understanding as I try to be about his hobby of ham radio, I truly do not believe I could have explained away a life-sized parrot breezing through our receiving line. The more traditional side of the family would never have understood even the best of explanations. Sorry fellas, this is one time I'm glad you couldn't reach your goal!

The reception over we sped away in a long silver limousine. In the excitement, I couldn't swear to it, but I believe Tom was still trying to see if he could hit the repeater as we neared our destination. Spellbound by all the luxurious gadgetry our transportation provided, I can't say for sure, but I believe I did hear the familiar da dit's as we drove along.

The morning after the ceremony we embarked on a car trip headed South. Let me tell you, nothing is more exciting than driving through nature's panorama. I kept gazing at the turning leaves on the trees or the things by the roadside. Just about the time I had my eyes focused on some such lovely sight, Tom would point out a tower. (Ham's wives soon learn that a road trip is a tower search. I've decided to consider it a form of bird watching. . . it's much easier to explain THAT to your friends who aren't married to hams. . . and it's only slightly different from actual bird watching in that instead of looking for a fine feathered friend you are focusing on the object upon which the bird normally sits.)

Towers come in all types and by the time we got to our destination, I was fairly sure I could tell the difference between a microwave operation, FM and AM. There was some instruction about tri-bands, side-bands, some sort of bands, but I confess I didn't listen too well on that because I was still thinking of wedding bands.

Our honeymoon was wonderful as honeymoons are supposed to be. We ended up in New Orleans. Tom even managed to overlook the fact that he had left his repeater directory at home. (He did say something about buying a copy to go with the two other copies he had left in Gallatin, but for some reason, didn't. I secretly suspect it was because we did not pass a shop devoted to ham radio, but nonetheless, he did find he could survive without it.)

Back to New Orleans. Our first day there we took a city tour. We hadn't been on the bus for ten minutes until we discovered two men behind us were discussing towers. You guessed it, we were sitting amidst ham radio operators from out west! WD4KWP came into his element again, introduced himself, and then there were three men discussing towers. I'm proud to say I did not show my newly married state, and fell right into the other two wives' discussion about more trivial matters. (You could tell the other two women were veterans at surviving their husbands' hobby).

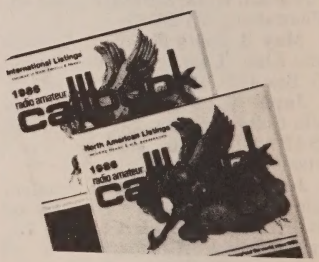
Almost as soon as we got back into Tennessee, Tom was trying to hit his repeater to check in with the hams at home. Okay, I could handle that. After all, I'd had him almost totally without a radio for a whole week. Ham's wives learn to relish in almost undivided attention -- a few minutes of da dits hidden among lengthy conversations is a small price to pay!

Home from our honeymoon we busied ourselves with the task of setting up a house. Of course, the minute we checked Tom's answering machine, he had multitudes of calls to return regarding repeater coordination. That I could understand because I'd been helping with that for some time. All in all, life was returning to normal.

I don't feel excluded because of Tom's hobby. In fact, he wants to share it with me. I guess I didn't really know just how much until I was looking through the tapes he had selected for our musical enjoyment on our trip and found one called Code Practice! Mr. Morse, wherever you are, I wish you'd kept you da dits to yourself. The electronics part is one thing (even I can solder) but that code is going to be the death of me yet!!!

We recently celebrated our first month's anniversary (when you're newly married, every first is something to celebrate) and I was busy preparing a special dinner when Tom came home from work. He kissed me and that familiar smile came back across his face. You guessed it, the second repeater was working again!!!!

1986 CALLBOOKS



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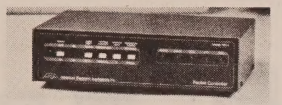

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PK-64 TNC **$205.00**
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TAPR boards. Operate packet, RTTY, Morse and AMTOR. Rqrs. HFM-64 Enhanced HF Modem for Morse Rec. & FM RTTY.

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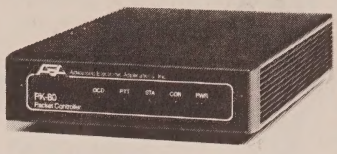

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Universal

TAPR Clone TNC-2. Has RS-232. Operates with any Communications software package.

CP-1 Interface
RTTY, CW, TU
$179.95
CP-1/64 $209.95 For Commadore
Operates with AEA-SOFT software.

Educational & Game Programs for Commadore

DR. DX.....89.95
DR. QSO.....75.95
Morse Univ.....39.95

AEA Software Packages.

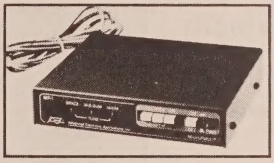
Commadore.....99.95
CP-1/Apple.....29.95
CP-1/IBM-PC.....45.95
CP-1/H-89.....71.95

MBA-TOR Software.....85.00
SWL-TEXT.....85.00

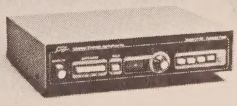
ISO-144
ISO-220
MASTS NOT SUPPLIED

SPECIAL

AEA Hotrod H/T 1/2-wave Telo Vertical For 2-Meters
$15.95
Add $1.50 Ship



MP-1 Micropatch
Operate Morse, Baudot, ASCII, Amtor
$129.95
Requires AEA-SOFT or MBA-TOR software.



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APRIL 13,1986

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Raleigh N.C.

★ **HAMFEST SOCIAL SATURDAY NIGHT**

A welcoming party will be held from 7-10 pm for all in the large meeting room inside the Hamfest building. Food, drinks, prizes for those present.

★ **AMATEUR EXAMS**

By Pre-registration only. Send completed 610 form with a copy of your present license and original code credit credit certificate (if applicable) and a check or money order for $4 to W.C.A.R.S./V.E.C. to:

John Johnson, WM4P
2118 Lyndhurst Drive
Raleigh, NC 27610

This examination will be held at 8 am Sunday, April 13, 1986 at Kilgore Hall, NCSU campus, approx. 2 miles east of the Hamfest site on Hillsborough St. (Hillsborough and Brooks Ave.)

PRIZES

1st - Choice: Icom IC751 HF or IC271H VHF Tranceiver with PS-35 internal power supply and AEA PK80 TNC
2nd - Icom IC3200A 2-band VHF 25 watt Tranceiver
3rd - Amp Supply LA1000NT no-tune 1KW Linear Amplifier
4th - Kenwood TM2550A 2 meter 45 watt Tranceiver
5th - Santec ST20T 2 meter Handheld

Prereg Prize: Kenwood TR2600A 2m Handheld

★ **CW AND HOME BREW CONTESTS**

CW CONTEST IN THE BUILDING (prize approx. $100)

HOMEBREW CONTEST IN BUILDING (prize approx. $100)

RARS members will monitor 146.04/64 and 146.28/88 to assist you in finding location

★ **SPECIAL INTEREST MEETINGS**

SPECIAL INTEREST

Q.C.W.A., M.A.R.S., ARRL-NTS and other meetings will be held in the building. Times will be announced at the Hamfest.

FOR THE LADIES

Special programs and on-going fairground activities will be of interest to the XYL.

1 Fleamarket space (1 8 ft. Table; 2 chairs)..$6.00 Our tables and chairs only - No outside facilities available - 24 hr. security - Vendor set-up Saturday 4-10 pm; Sunday 6 am. All vehicles must vacate the building by 8 am. Bring your own handcart.

RADIO SOCIETY'S

EST

VENDOR INFO: Rollin Ransom, NF4P
(919) 779-5021

GENERAL INFO: RARS Hamfest
PO Box 17124
Raleigh, NC 27619

HAMFEST CO-CHAIRMEN

Jeff Parker, WA1WXL
7901 Twin Oaks Ct.
Raleigh, NC 27609

Al Mullis, K4GOE
5304 Chamisal Pl.
Raleigh, NC 27612

N.C. ARRL STATE CONVENTION

The Raleigh Amateur Radio Society welcomes you to it's Fourteenth Annual RARS HAMFEST. All of the Hamfest activities will be in the Jim Graham Building and there will be no outside activities connected with the Hamfest. We will be sharing the Fairgrounds with other events that will be going on so please follow the traffic and parking directions on the grounds. If you desire full hook-up overnight camper/RV parking, please check the box on the Registration Form. A $5.00 per night fee will be collected on site by the Fairgrounds Authorities.

Pre-registration by April 7th, 1986, is most desirable as indicated on the Pre-registration form.

AC power can be available. Request vendor information. There is a full service concession in the Hamfest building. The nearest motels and restaurants are located on Route 70W west of the Beltline.

Don't forget to stop at the ARRL and RARS club Booths for an eyeball QSO with your ARRL Section Officials and pick up some of the latest publications and membership forms.

All Hamfest participants over the age of 12 must pay the registration fee.

The RARS HAMFEST COMMITTEE will do their best to see that you have a good time. If you have any comments or suggestions please let us know. RARS club members will be wearing yellow and blue armbands.

PRE-REGISTRATION FORM

PRE-REGISTRATION PRIZE

Kenwood TR2600A
2 meter Handheld

Pre-registration drawing at 10 am Sun. Apr 6 - You do not have to be present to win.

TO: Rollin Ransom, NF4P
2447 Fairway Drive
Raleigh, NC 27603

Please Print Clearly and Include SASE

Name _____ Call _____

Address _____

City _____ State _____ Zip _____

Make checks payable to RARS

PRE-REGISTRATION CUTOFF DATE: April 7, 1986

__Reg....$3.50 $_____

__Tables..6.00 $_____

Total Enclosed $_____

Space for Camper/RV ( )

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	D	
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	D	PA
BENSON	AK4H	147.87	147.27	*	PA
BOONE/RICH MTN	WA4KDB	147.96	147.36	*	
BREVARD/TRNS CTY	WB4CJS	147.735	147.135	D	
BURGAW	W4DLH	146.34	146.94	*	EA
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	D	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23	D	
CHARLOTTE	W4BFB	144.69	145.29	D	A
CHARLOTTE	WA4AOS	144.75	145.35	D	
CHARLOTTE	W4BFB	146.34	146.94	D	A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	D	R
CHERRY MT	W4TMT	146.07	146.67	D	
CLINTON	WA4LZD	146.19	146.79	N	
COLUMBIA	K4ITL	144.51	145.11	N	CL
CONCORD/KANNAP.	K4CEB	146.055	146.655	D	A
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	WB4FXM	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	D	
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	D	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WB4YZF	146.31	146.91	*	A
FAYETTEVILLE	WA4FLR	146.445	147.045	*	CR
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	*	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	*	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GOLD HILL/GBO	N4AZM	144.65	145.25	*	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	*	
GREENSBORO	KB4IZ	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	D	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	D	
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	D	A
HIGH POINT	N4LXW	146.40	147.00	*	LA
HIGH POINT	KB4BPV	147.435	146.835	*	A
HIGH POINT	N4LXW	147.60	147.00	*	LA
HIGH POINT	KA4DHP	147.765	147.165	*	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	D	A
HOPE MILLS	WB4TRW	146.445	147.045	N	
JACKSONVILLE	WD4FVO	146.40	147.00	*	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
KINSTON	N4HAJ	144.87	145.47	N	P
LAURINBURG	K4QWK	146.025	146.625	D	A
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEWISVILLE	N4GGK	144.61	145.21	*	PA
LEXINGTON	K4IZM	146.31	146.91	*	PA
LILLINGTON	WA4FKI	144.87	145.47	N	
LK NORMN/CLT	WB4KPF	147.615	147.015	D	
LUMBERTON	W4NHV	147.90	147.30	*	EA
LUMBERTON	WB4MDI	147.96	147.36	*	
MACO	WA4LED	147.66	147.06	D	
MADISON	KA4YFF	146.295	146.895	D	
MAGGIE VALLEY	W4HCY	147.405	146.805	*	
MANTEO	K4UOR	146.34	146.94	D	O
MARION/BEAR WLW	KA4DEC	147.705	147.105	D	
MAYODAN	WA4ACP	144.55	145.15	D	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	KF4NJ	144.79	145.39	*	A
MONROE	K4BGU	147.30	147.90	N	NB
MONROE/UCARS	K4JCK	147.705	147.105	*	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MT AIRY	WA4ZAS	146.37	146.97	D	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	D	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	D	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
N. WILKESBORO	N4AGN	144.77	145.37	*	LPA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	D	
OLD FORT	KA4ROZ	146.385	146.985	D	
OXFORD	N4EKK	144.57	145.17	*	PA
RALEIGH	N4BEA	144.67	145.27	*	PAL
RALEIGH	NW4B	144.79	145.39	N	C
RALEIGH	N4CBI	144.89	145.49	D	
RALEIGH	W4DW	146.04	146.64	D	
RALEIGH	K4BWC	146.13	146.73	*	A
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
REIDSVILLE	K4YFT	146.25	146.85	*	
ROANOKE RAPIDS	K4ITL	144.71	145.31	N	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	*	
ROARING GAP	WB4PZA	146.22	146.82	*	
ROBBINSVILLE	WD4CNS	146.445	147.045	D	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	*	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	N4LXW	146.19	146.79	*	PA
SAUROTOWN MT	WA4GIC	144.87	145.47	D	
SHALLOTTE	K4PPD	144.69	145.29	*	
SHELBY	WD4DJA	146.28	146.88	D	
SHELBY	WD4DJA	147.945	147.345	D	PA
SMITHFIELD	KD4JQ	146.37	146.97	D	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	*	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	*	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	*	
TRENTON	K4ITL	144.61	145.21	*	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	D	
WADESBORO	WA4IAT	146.235	146.835	D	
WASHINGTON	WA4TEP	147.945	147.345	*	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	*	A
WAYNESVILLE	N4SM	147.87	147.27	*	PA
WHITEVILLE	K4MSD	147.81	147.21	D	
WILLIAMSTON	KA4KNU	144.81	145.41	*	PA
WILMINGTON	W4VNK	146.13	146.73	*	PA
WILMINGTON	K4GMP	146.22	146.82	*	L
WILMINGTON	N4CJS	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	D	

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MORE NORTH CAROLINA REPEATERS

2 METERS

WINSTON-SALEM	WA4GIC	146.04	146.64	D	
YOUNGSVILLE	WD4AUI	146.445	147.045	N	

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	*	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	*	
CHAPEL HILL	K2MZ	223.32	224.92	N	C
CHARLT/MINT HL	KE4ZC	222.80	224.40	D	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	*	
GREENSBORO	WB4IKY	223.22	224.82	*	R
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	*	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	*	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	*	L
LAKE TOXAWAY	K4MSK	223.12	224.72	N	
LENOIR/HIBRITN	KN4K	222.56	224.16	*	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	D	
LOCUST	WA4ZIA	222.40	224.00	*	PA
LUMBERTON	WB4WOR	222.54	224.14	*	
MOORESBORO	N4JIF	222.60	224.20	N	C
MORGANTON	WB4PML	223.20	224.80	*	
MT MITCHELL	WA4BVW	222.94	224.54	*	
N. WILKESBORO	N4JFM	222.88	224.48	N	C
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	*	
SALISBURY	W4EXU	223.16	224.76	*	
SAURATOWN MT	W4RXG	223.10	224.70	*	R
SAURATOWN MT	W4RXG	223.28	224.88	*	
STATESVILLE	WA4PVI	222.70	224.30	D	
WINSTON-SALEM	WA4YHH	223.04	224.64	N	

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	N	C
ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHAPEL HILL	K2MZ	448.875	443.875	N	C
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	N	
CHARLT/MINT HL	KE4ZC	448.95	443.95	D	
DURHAM	WA4WTX	449.10	444.10	*	PA
FAYETTEVILLE	KB4ZW	449.40	444.40	D	
FAYETTEVILLE	KB4ZW	449.90	444.90	D	P
GREENSBORO	N4AZM	448.50	443.50	*	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	*	
HICKORY	K4JEQ	449.00	444.00	D	
HIGH POINT	K4AZA	447.90	442.90	*	L
LEWISVILLE	N4GGK	439.25	426.25	*	V
LEXINGTON	W4HTG	449.50	444.50	N	C
LOCUST	WA4LBT	448.70	443.70	D	
MORGANTON	WB4PML	447.05	442.05	D	C
MT AIRY/FSH PK	KF4UY	449.80	444.80	*	
MT MITCHELL	WA4BVW	434.25	421.25	*	V
MT MITCHELL	N4DWU	448.60	443.60	*	
MT PISGAH	WA4COS	449.875	444.875	N	C
N. WILKESBORO	N4GGN	448.35	444.35	N	C
NEWTON	WD4JWO	449.30	444.30	N	C
RALEIGH	N4BEA	447.15	442.15	*	L
ROCKY MOUNT	N4JEH	449.70	444.70	*	
SALISBURY	W4EXU	449.65	444.65	*	
SAURATOWN MT	K4AZA	448.10	443.10	*	
SAURATOWN MT	WA4GIC	449.975	444.975	D	C

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.
★ Honor Roll Full Member
D Deliquent Membership
N NON Member SERA
NB Not on SERA Band Plan
M T-MARC Terr. Rptr.
A Autopatch (Open)
PA Private Autopatch
EA Emerg. Autopatch
T Tone Access Repeater
L Linked Repeater
K Packet Operation
R Radioteletype Oper.
V Television (SS or ATV)
P Proposed Repeater
C Under Construction
O Off Air Temporarily
RB Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

SHELBY	WD4DJA	439.25	427.25	D	V
WILKESBORO	KC4XE	448.55	443.55	*	
WILLIAMSTON	KA4KNU	449.65	444.65	D	
WILMINGTON	KB4BR	449.70	444.70	D	
WILSON	NE4J	449.90	444.90	*	

920 MHZ

LEXINGTON	W4PAR	908.00	920.00	*	P
LEXINGTON	W4PAR	909.00	921.00	*	P

10 METERS

CHAPEL HILL	K2MZ	29.54	29.64	N	C
SAPPHIRE	W4EHV	29.56	29.66	N	C
WILKESBORO	KC4XE	29.52	29.62	*	L

6 METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	*	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	K4PUV	52.03	53.03	*	
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

CHARLOTTE	W4BFB	145.01	PKET	D	K
CONCORD	K4CEB-1	145.01	PKET	N	K
GOLDSBORO	K4CYP-1	145.01	PKET	N	K
RALEIGH	K4BWC-1	145.01	PKET	*	K
SAURATOWN MT	W4RXG-1	145.01	PKET	*	K
SPIVEY MTN	KB4OKW-1	145.01	PKET	*	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	*	
ANDERSON	N4SZ	146.37	146.97	*	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	*	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	W4IVE	146.34	146.94	N	P
CHARLESTON	WB4LET	147.87	147.27	*	PA
CHARLESTON	K4LWS	147.90	147.30	D	A
CHELSEA	KB4GY	146.01	146.61	D	
CHERAW	KA4ABW	147.735	147.135	D	PA
COLUMBIA	KC4LB	144.83	145.43	*	PA
COLUMBIA	K4AVU	146.28	146.88	D	
COLUMBIA	WA4KIO	147.93	147.33	D	L
DILLON/PEE DEE	NN4N	146.145	146.745	*	EA
FLORENCE	W4ULH	146.25	146.85	D	A
FLORENCE	WA4ISM	146.37	146.97	*	PA
FT JACKSON	WB4OCB	146.16	146.76	D	
FT MILL/CAROWND	AA4SC	147.78	147.18	D	
GASTON	WB4NEP	144.61	145.21	D	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	WD4NUN	147.675	147.075	D	A
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	D	
GREENVILLE	K4LEO	147.395	147.975	*	NBT
GREENWOOD	KB4YF	147.765	147.165	*	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GREENWOOD/HODGES	KB4YF	144.77	145.37	*	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	*	PA
INMAN	WD8OXE	144.87	145.47	D	
LANCASTER	W4PAX	146.10	146.70	*	
LANCASTER	WB4BGF	147.84	147.24	D	
LAURENS	KA4LBI	146.25	146.85	N	A
LEXINGTON	KA4FEC	147.99	147.39	*	
LITTLE MT.	K4AVU	147.81	147.21	D	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	WD4CWY	147.75	147.15	N	
MT PLEASANT	K4ESG	146.07	146.67	D	
MYRTLE BEACH	KI4CB	144.51	145.11	D	P
MYRTLE BEACH	K4IQM	146.01	146.61	D	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	

MORE SOUTH CAROLINA REPEATERS

2 METERS

MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	*	
NEWBERRY	KB4CO	146.085	146.685	*	
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00	*	
PROSPERITY	WB4OCB	147.84	147.24	D	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	D	
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	K4YTZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	N	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WA4LDP	146.13	146.73	*	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	D	PA
SUMTER	WS4P	146.04	146.64	*	
SUMTER	WA4UMU	147.615	147.015	*	EA
SUMTER	W4VFR	147.66	147.06	*	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	*	L
EASLEY/SASFRS MT	AJ4N	222.46	224.06	D	
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	*	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	*	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	D	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
COLUMBIA	N4EOY	448.00	443.00	D	
COLUMBIA	KC4YI	449.10	444.10	*	
GREENVILLE	WB4HKZ	448.10	443.10	N	C
LEXINGTON	N4GUP	439.25	421.25	*	V
MT PLEASANT	N4DRU	449.70	444.70	D	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	*	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N	NB
SUMTER	WA4UMU	439.25	427.25	D	V
SUMTER	N4IGN	449.95	444.95	N	P

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N	P
COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	*	

PACKET

ANDERSON	W4FX-1	145.01	PKET	*	K
COLUMBIA	N4EOY	145.01	PKET	*	K
FLORENCE	W4ULH	145.01	PKET	D	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	D	A
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	*	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	*	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	*	LRPA
BLACKSBURG	AB9I	146.115	146.715	*	
BLAND	N4AZJ	144.75	145.35	N	L
BLUEFIELD	W8MOP	144.89	145.49	*	
BLUFLD/ER MT	KD8MZ	146.025	146.625	*	
BRISTOL	WDECYZ	146.28	146.88	N	
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	D	A
CHESAPEAKE	N4SD	146.19	146.79	D	A
CHESTERFIELD	KA4CBB	147.96	147.36	*	
CHESTERFLD CO	WA4ECM	147.66	147.06	*	A
COVINGTON	WA4HTI	146.205	146.805	D	
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	*	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	*	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WB4NWP	146.31	146.91	D	A
FINCASTLE	W4WIC	146.04	146.64	*	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	*	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	*	A
GALAX/FRIES	WA4DFH	147.735	147.135	*	A
GALAX/LKOUT MT	N4VL	144.53	145.13	*	EA
GATE CITY	WD4GTA	147.945	147.345	N	
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GUM SPRING	KB4GX	147.87	147.27	D	
HAMPTON	K4DHO	146.13	146.73	D	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	N	
HILLSVILLE	WD4BTJ	147.975	147.375	D	A
JONESVILLE	WA4OVC	146.31	146.91	*	
KILMARNOCK	W2MS	144.61	145.21	N	C
LEXINGTON	KI4ZR	146.07	146.67	*	A
LEXINGTON	KI4ZR	147.90	147.30	*	C
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	*	A
LYNCHBURG	AB4M	147.43	144.93	D	NB
LYNCHBURG	WA4RTS	147.795	147.195	D	
LYNCHBURG	W4OSH	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	
MARTINSVILLE	AB4L	147.885	147.285	*	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	
NEW MARKET	WB4DAK	146.025	146.625	*	
NEWPORT NEWS	WB4CTF	147.765	147.165	D	PA
NEWPORT NEWS	WA4OHX	147.975	147.375	N	PA
NORFOLK	NE4D	146.10	146.70	D	
ONEIDIA PEAK	KD8MZ	146.325	146.925	*	
PETERSBURG	N4KAF	147.78	147.18	D	
PETERSBURG	K4ARO	147.84	147.24	*	TPA
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	*	PA
PORTSMOUTH	N4PR	146.25	146.85	D	
RADFORD	KC4WA	147.645	147.045	*	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	D	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	
SALEM	W4PDL	146.28	146.88	N	
SOUTH BOSTON	WD4LBM	146.46	147.06	*	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WD4DZE	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	D	
WAYNESBORO/FMS	W4BLD	147.63	147.03	*	
WAYNSBR/AFTON MT	W4PNT	147.675	147.075	D	
WILLIAMSBURG	W4NTG	146.07	146.67	D	
WINCH/BLUEMONT	WA4TSC	147.90	147.30	D	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHEVILLE	WA4EMS	146.175	146.775	*	
YORKTOWN	WD4SDC	147.825	147.225	N	

MORE VIRGINIA REPEATERS

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/PT LKOUT	WA4DFH	222.74	224.34	*	
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
STERLING PK	WD4KHP	222.12	223.72	D	C
TYSONS CORNER	WD4KHP	223.12	224.72	D	PL

440 MHZ

ALBERTA	K4ARO	449.55	444.55	N	L
ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	N4EVG	448.90	443.90	*	A
COVINGTON	WA4HTI	447.25	442.25	D	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	*	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	D	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
PETERSBURG	K4ARO	449.85	444.85	*	
RICHMOND	N4HB	449.00	444.00	D	
RICHMOND	K4ARO	449.65	444.65	*	
ROANOKE	WB4DBB	446.65	446.65	*	RBL
ROANOKE	N4HON	447.70	442.70	*	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	
SALUDA	WA4UAF	448.90	443.90	N	
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	W4BLD	449.30	444.30	*	TPA
WAYNSBR/AFTON MT	W4BLD	449.05	444.05	*	
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	D	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	*	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	D	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	KA4NNN	52.43	53.43	D	N
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L

PACKET

CHARLOTTESVILLE	WA4TFZ-1	145.01	PKET	*	CK
GLEN ALLEN	K4ARO-1	145.01	PKET	*	K
HAMPTON	K4UMI	145.23	PKET	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	PKET	*	K

The Repeater Journal Index Has Been Corrected As of January 18, 1986

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	N	
BRISTOL	K4ILW	146.07	146.67	D	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BROWNSVILLE	WA4ABU	146.655	146.055	N	NB
CHATT/SIGNAL MT	AD4F	146.055	146.655	*	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	D	PA
CHATTANOOGA	K4VCM	144.69	145.29	D	
CHATTANOOGA	KB4TZ	144.79	145.39	D	A
CHATTANOOGA	K4CMY	146.01	146.61	D	
CHATTANOOGA	W4DSK	146.19	146.79	D	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLEVELAND	WD4DES	147.78	147.18	D	
COOKEVILLE	WA4UCE	146.07	146.67	N	A
COOKEVILLE	N4WS	147.81	147.21	D	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	*	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	*	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	D	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	*	A
FRANKLIN	WB4HCK	144.55	145.15	N	RB
FRAYSER	W4UFT	146.10	146.70	N	
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GALLATIN	WB4DLQ	147.99	147.39	N	T
GREENEVILLE	WS4X	144.79	145.39	*	
GREENEVILLE	WB4TUO	144.81	145.41	*	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	*	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	D	LEA
HENDERSONVILLE	WB4WZK	144.67	145.27	*	
HENDERSONVILLE	WD4FFM	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	*	
HUMBOLDT	NQ4Y	144.75	145.35	*	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	WB4EHK	146.19	146.79	D	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	D	A
KNOXVILLE	WB4JSD	144.51	145.11	*	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	WA4TEM	144.73	145.33	*	A
KNOXVILLE	WA4GZE	144.77	145.37	D	
KNOXVILLE	WB4GBI	144.83	145.43	D	
KNOXVILLE	WB4GBI	146.34	146.94	D	
KNOXVILLE	K4HXD	147.675	147.075	N	A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/CROSS MT	KA4OAK	147.96	147.36	*	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
KNXVL/HOUSE MT	WB4GBI	144.87	145.47	D	
LAFOLLETTE	KA4OAK	144.53	145.13	*	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	*	
LAKE CITY	WB4OAH	146.22	146.82	N	

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.
★ Honor Roll Full Member
D Deliquent Membership
N NON Member SERA
NB Not on SERA Band Plan
M T-MARC Terr. Rptr.
A Autopatch (Open)
PA Private Autopatch
EA Emerg. Autopatch

T Tone Access Repeater
L Linked Repeater
K Packet Operation
R Radioteletype Oper.
V Television (SS or ATV)
P Proposed Repeater
C Under Construction
O Off Air Temporarily
RB Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

MORE TENNESSEE REPEATERS

2 METERS

LEBANON	WB4DOR	144.59	145.19	*	
LEBANON	KE4VZ	146.13	146.73	D	PA
LENOIR CITY	KE4SK	144.57	145.17	N	
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4FOT	146.10	146.70	N	A
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WA4CPJ	146.37	146.97	*	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	N	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WA4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	D	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	D	L
MORRISTOWN	WD4PRQ	147.63	147.03	D	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MUFREESBORO	N4FUD	144.61	145.21	N	
MURFREESBORO	WB4LHO	144.57	145.17	D	PA
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	D	EA
NASHVILLE	WA4PCD	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79	D	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	*	PA
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	D	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	D	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	*	L
OAK RIDGE	K4EAJ	147.75	147.15	*	R
PARIS	WA4CEX	147.765	147.165	N	
PARIS	K4KLX	147.96	147.36	D	A
PIKEVILLE	K4MJM	147.885	147.285	*	
PULASKI/MUS MT	W4JVO	146.175	146.775	D	
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHIELDS MT	N4CJX	144.67	145.27	D	EA
SHORT MTN	W4YXA	146.31	146.91	D	
SPARTA/BON AIR	W4BSA	147.69	147.09	*	A
SPRING HILL	NW4E	144.85	145.45	D	A
STANTONVILLE	KA4OHC	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	*	
UNION CITY	WA4YGM	147.015	147.615	*	A NB
WAVERLY	NO4Q	146.085	146.685	N	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	D	
CHATTANOOGA	K4VCM	223.18	224.78	D	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	*	PA
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	D	
KNOXVILLE	WA4YON	222.86	224.46	*	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	KB4CTS	223.22	224.82	N	C
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	D	LO
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4AWB	222.62	224.22	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	D	V
CHATTANOOGA	WA4NFO	449.10	444.10	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	*	O
FISHERVILLE	N4DDS	449.30	444.30	*	O
GALLATIN	WD4BKY	449.35	444.35	N	
GALLATIN	WD4KWP	449.45	444.45	*	
GATLBG/COVE MT	WA4KJH	448.30	443.30	D	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HOOVER(ALA)	K4FUM	449.30	444.30	D	NBA
JACKSON	WB4EPG	447.80	442.80	*	A
JACKSON	WB4EPG	447.825	442.825	*	C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4NK	449.60	444.60	*	
KNOXVILLE	WB4GBI	449.70	444.70	D	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	D	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WD4APK	449.80	444.80	N	
MILAN	WD4ABJ	447.10	442.10	D	
MORRISTOWN	KA4NEX	449.20	444.20	N	
NASHVILLE	WA4PCD	449.55	444.55	N	
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	*	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	D	
WATERTON	KE4VZ	449.825	444.825	N	C

10 METERS

KNXVL/ENG MT	WB4IOB	29.52	29.62	*	
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	D	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	D	
GALLATIN	WD4KWP	52.45	53.45	*	C
KNOXVILLE	WB4GBI	52.35	53.35	D	
KNOXVILLE	WA4YON	52.64	53.64	*	
KNOXVILLE	K4HXD	52.76	52.525	N	NB
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

KNOXVILLE	KB4NK-1	145.01	PKET	*	K
KNOXVL/CROSS MT	WA4YON	145.01	PKET	N	K
MEMPHIS	WB4MQD	145.33	PKET	N	K
PIKEVILLE	K4MJM	145.01	PKET	*	K
SHORT MT	W4YXA	145.01	PKET	N	CK

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.
★ Honor Roll Full Member
D Deliquent Membership
N NON Member SERA
NB Not on SERA Band Plan
M T-MARC Terr. Rptr.
A Autopatch (Open)
PA Private Autopatch
EA Emerg. Autopatch
T Tone Access Repeater
L Linked Repeater
K Packet Operation
R Radioteletype Oper.
V Television (SS or ATV)
P Proposed Repeater
C Under Construction
O Off Air Temporarily
RB Remote Base System

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WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	D	
BECKLEY/EOC	KC8FW	144.77	145.37	N	LA
BKLY/FLAT TOP MT	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49	*	
BOLT MT	KD8X	144.57	145.17	*	L
BRIDGEPORT	K8VNQ	147.72	147.12	*	EAL
BUCKHANNON	WD8LND	146.04	146.64	D	
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	WB8ZVS	146.22	146.82	D	
CLARKSBURG	WB8DTM	146.50	52.525	N	NB
CLARKSBURG	KA8OHX	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	*	EA
EAST RIVER MNT	WD8OGY	146.355	146.955	D	A
ELKINS	AD8T	144.69	145.29	N	P
FAIRMONT	W8SP	146.30	146.90	D	
FAIRMONT	W8SP	146.31	146.91	D	
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	KA8HEZ	146.115	146.715	N	
GRAFTON	K8VNQ	147.975	147.375	*	L
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	D	R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	D	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	*	L
LEON	WB8NMT	147.78	147.18	N	
LIBERTY	K8SLI	144.81	145.41	N	P
LOGAN	WD8KWC	144.63	145.23	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	*	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	*	PA
MORGANTOWN	K8LG	144.83	145.43	N	L
MORGANTOWN	W8CUL	146.16	146.76	*	LPA
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LA
NEW MARTINSVLLE	WB8CSW	146.34	146.94	D	
PARKERSBURG	WA8CRW	146.37	146.97	D	
PARKERSBURG	W8JZN	147.99	147.39	D	
PARSONS	K8VNQ	144.73	145.33	*	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KA8PNC	146.46	147.06	*	A
RAVENSWOOD	WD8JNU	146.07	146.67	*	
RAVENSWOOD	WD8JNU	146.10	146.70	*	R
RICHWOOD	K8VKB	146.34	146.94	D	
RIPLEY	K8SNW	146.31	146.91	N	P
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SHERRARD	KD8GL	146.115	146.715	*	EA
SPENCER	KA8AUW	146.01	146.61	N	
SPENCER	N8APG	147.705	147.105	N	P
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST ALBANS/COAL	WB8KAD	146.12	146.72	N	PA
ST ALBANS/COAL	WB8OEC	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERLEE MT	K8CFT	146.19	146.79	*	EA
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	D	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	D	PAL
WHEELING	W8YFX	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	N8GEO	144.73	145.33	*	PA

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N	
KINGSTON/LICK KB	W8FG	223.14	224.74	*	

440 MHZ

CHARLESTON	??	439.25	421.25	N	V
HERNDON/HRNDN MT	N8CYH	449.00	444.00	*	
LICK KNOB	N8FRV	449.80	444.80	*	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PA

PACKET

LOGAN	WB8FQJ	145.01	PKET	D	K
MORGANTOWN	N8BHI-1	145.01	PKET	*	K

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ALBANY	W4MM	144.55	145.15	*	L
ALBANY	W4MM	146.10	146.70	*	
ALBANY	W4MM	146.13	146.73	*	
ALBANY	W4MM	146.22	146.82	*	
ALBANY	WB4TFW	147.75	147.15	*	
AMERICUS	N4KD	146.04	146.64	N	P
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	*	
ATHENS	WA4BKF	144.65	145.25	*	A
ATHENS	K4TQU	147.375	147.975	*	
ATLANTA	K4DRQ	144.69	145.29	*	
ATLANTA	WA4JDR	144.71	145.31	N	
ATLANTA	W4BOC	144.85	145.45	N	
ATLANTA	W4FWD	146.04	146.64	N	T
ATLANTA	W4DOC	146.22	146.82	D	PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	*	PA
ATLANTA	W4REI	147.63	147.03	*	
ATLANTA	KD4RR	147.705	147.105	D	
ATLANTA	K4SMX	147.795	147.195	N	
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/BELL	W4PME	144.81	145.41	*	
ATLANTA/GA TECH	W4AQL	144.55	145.15	*	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/SWEAT MT	WB4UPC	144.83	145.43	*	A
ATLANTA/SWEAT MT	WB4UPC	147.94	147.34	*	
AUGUSTA	W4TUN	144.51	145.11	D	A
AUGUSTA	N4JA	144.89	145.49	*	
AUGUSTA	W4LWT	146.04	146.64	*	
AUGUSTA	WB4IHR	146.235	146.835	*	C
AUGUSTA	K4AUM	146.34	146.94	D	EA
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	W4ALK	147.72	147.12	D	PA
AUGUSTA	N4BMA	147.78	147.18	*	RPA
AUGUSTA	KB4NHY	147.97	147.37	N	P
BALDWIN	WD4NHW	147.78	147.18	D	A
BLAIRSVILLE	N4EFL	147.705	147.105	D	
BRUNSWICK	K4TVE	146.13	146.73	N	
CARROLLTON	W4FWD	146.04	146.64	*	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	*	
CLEVELAND/LONG	K4FOW	147.615	147.015	*	
CLOUDLAND	N4AHE	147.225	147.825	N	
COHUTTA-RTTY	W4KAU	146.46	147.06	*	RO
COLLEGE PARK	WB4LBM	144.51	145.11	N	O
COLUMBUS	WD4BDU	144.71	145.31	N	
COLUMBUS	W4FIZ	146.01	146.61	*	
COLUMBUS	W4FIZ	146.13	146.73	N	
COLUMBUS	N4AGO	146.28	146.88	*	
COLUMBUS-RTTY	K4ACH	144.77	145.37	*	R
CONYERS	KE4SG	147.81	147.21	*	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.925	146.325	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	D	PA
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	K4WNG	144.63	145.23	D	
DALTON	N4BZJ	144.65	145.25	D	O
DALTON	N4BZJ	145.65	145.25	*	
DALTON	N4BZJ	147.735	147.135	*	
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DECATUR	WB4CPL	144.75	145.35	*	
DOUGLASVILLE	KB4EO	147.96	147.36	*	A

MORE GEORGIA REPEATERS

DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	147.385	147.985	*	
FAYETTEVILLE	K4UWN	146.085	146.685	*	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
GAINESVILLE	W4NSO	146.07	146.67	D	A
GRIFFIN	WB4GWA	144.79	145.39	*	PA
GRIFFIN	K4HYB	146.31	146.91	*	
HAMILTON	N4GDG	146.835	146.235	N	
HAMILTON/PINE MT	WB4ULJ	144.59	145.19	N	
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	D	EA
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	146.10	146.70	*	A
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	N	
LAGRANGE	WB4BXO	147.93	147.33	N	
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	
MACON	K4ICT	147.66	147.06	*	T
MADISON	WB4DKY	146.865	146.265	*	
MARIETTA	WA4QPL	144.89	145.49	D	PA
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	*	
MARIETTA	WA4QPL	147.015	147.615	N	
METTER	W4TYM	147.645	147.045	*	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	D	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	144.71	145.31	*	A
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
RIVERDALE	WA4EPK	144.61	145.21	D	PA
ROME	W4VO	146.34	146.94	D	
ROME	K4HNM	147.30	147.90	N	
ROSSVILLE	KC4EV	144.75	145.35	D	
ROSWELL	NC4E	144.69	145.29	N	
ROSWELL	N4CLA	144.87	145.47	N	
ROSWELL	N4CLA	147.66	147.06	D	
SANDY SPRINGS	WB4CPL	144.75	145.35	N	
SAVANNAH	K4NLX	144.63	145.23	N	
SAVANNAH	K4NLX	146.10	146.70	N	PA
SAVANNAH	W4HBB	146.28	146.88	*	
SAVANNAH	W4HBB	146.37	146.97	*	A
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	*	
STATESBORO	NC4D	147.81	147.21	N	
STONE MTN	W4BOC	146.16	146.76	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SWEAT MT	N4CLA	144.87	145.47	D	PA
SWEAT MT	KD4NC-	146.13	146.73	D	K
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	D	A
TOCCOA	KA4DIP	147.93	147.33	*	PA
UNION CITY	WA4UPE	146.025	146.625	*	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	D	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	*	L
WARNER ROBINS	WB4BDP	146.01	146.61	*	
WARNER ROBINS	W4HON	146.25	146.85	*	A
WARNER ROBINS	W4MST	147.615	147.015	*	
WARNER ROBINS	W4HON	147.90	147.30	*	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRRS/RCKY TP	K5PRE	147.915	147.315	N	

6 METERS

ATLANTA/SWEAT MT	WB4UPC	53.05	52.05	*	
CONYERS	WB4JEH	52.55	53.55	N	C
MARIETTA	WR4ASD	53.44	52.44	N	

220 MHZ

ATLANTA	KK4C	223.22	224.82	*	PAL
ATLANTA/SWEAT MT	WB4UPC	222.34	223.94	*	L
ATLANTA/SWEAT MT	WB4UPC	222.52	224.12	*	A
ATLANTA/SWEAT MT	WB4UPC	223.06	224.66	*	O
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	*	L
BUCHANAN/HARALSO	WB4UPC	223.28	224.88	*	O
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	*	
CANTON	KE4PN	222.74	224.34	*	L
CANTON	WB4UPC	222.74	224.34	*	L
DALTON	N4BZJ	223.28	224.88	*	
MARIETTA	N4BSW	223.14	224.74	N	
ROSSVILLE	KC4EV	223.34	224.94	D	

440 MHZ

ALBANY	W4MM	439.25	427.25	*	
ALBANY	W4MM	444.50	449.50	*	
ATLANTA	WD4KEZ	444.45	449.45	N	
ATLANTA	W4DOC	444.825	449.825	D	
ATLANTA	KE4IO	448.50	443.50	N	
ATLANTA	KE4IO	448.550	443.550	N	
ATLANTA	WB4UWL	449.50	444.50	*	
ATLANTA	N4WQ	449.625	444.625	N	A
ATLANTA	WA4NNO	449.925	444.925	*	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	*	
AUGUSTA	WB4OCB	448.145	443.145	N	
CHATSWORTH	AA4EO	448.00	443.00	D	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB4JEH	447.55	442.55	N	
DALTON	WA4TIW	449.735	444.735	*	
DECATUR	WB4LBM	449.20	444.20	N	
GRIFFIN	WB4GWA	448.90	443.90	*	PA
KENNESAW	WB4IXF	449.50	444.50	N	
LAWRENCEVILLE	WD4KEZ	449.45	145.67	*	RB
LAWRENCEVILLE	WD4KEZ	449.45	444.45	*	L
MACON	WB4OLL	444.90	449.90	N	
MARIETTA	N4CLA	448.20	443.20	N	
RIVERDALE	WA4EPK	449.55	444.55	D	
STONE MTN	W4BOC	449.25	444.25	N	

10 METERS

ALBANY	W4MM	29.58	29.68	*	L
ATLANTA	WB4LBM	29.52	29.62	N	

PACKET

ADEL	KF4JF-1	145.01	PKET	N	K
ALBANY	W4MM	145.09	PKET	N	K
AMICACOLA MT	WB4GQX-4	145.09	PKET	*	K
AUGUSTA	WD4CNV-1	145.01	PKET	N	K
CLARKSVILLE	W4EAW-1	145.01	PKET	N	K
COHUTTA	W4KAU	145.01	PKET	*	K
COHUTTA	W4KAU	145.09	PKET	*	K
COLUMBUS	K4ABT-1	145.01	PKET	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	PKET	*	K
FAIRMONT	AA4EO-1	145.09	PKET	N	K
FORSYTH	WB4GQX-2	145.01	PKET	*	K
HAMILTON/PINE MT	WB4ULJ-1	145.01	PKET	N	K
HAMPTON	WA4TXT-1	145.01	PKET	N	K
MACON	K4ICT-2	145.05	PKET	*	K
PERRY	K4ICT-1	145.01	PKET	*	K
ROBERTA	K4ICT-4	145.01	PKET	*	K
ROME	NC4G-1	145.09	PKET	N	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	PKET	N	K
WARNER ROBINS	WL7ACY-1	145.05	PKET	*	K

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.
★ Honor Roll Full Member
D Deliquent Membership
N NON Member SERA
NB Not on SERA Band Plan
M T-MARC Terr. Rptr.
A Autopatch (Open)
PA Private Autopatch
EA Emerg. Autopatch

T Tone Access Repeater
L Linked Repeater
K Packet Operation
R Radioteletype Oper.
V Television (SS or ATV)
P Proposed Repeater
C Under Construction
O Off Air Temporarily
RB Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KK4Y	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	D	ALRB
ELKHORN CITY	WB4WAU	147.60	147.00	*	PA
GRAYSON	KF4JO	146.10	146.70	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	*	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	D	A
LOUISA	WA4SWF	146.13	146.73	*	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.745	147.145	N	
PAINTSVILLE	WB4WFW	147.69	147.09	D	A
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	*	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
PRESTONSBURG	WA4FHK	146.28	146.88	D	
WINCHESTER	WB4ASZ	147.72	147.12	D	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	D	
PIKEVILLE	WB4F	222.98	224.58	*	

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	*	C

ALABAMA REPEATERS

2 METERS ONLY Full Member Repeaters Listed

ANNISTON	N4FIV	146.10	146.70	*	A
BESSEMER	N4LJE	144.79	145.39	*	
BIRMINGHAM	N4IQT	144.59	145.19	*	
BIRMINGHAM	WD4BXA	147.285	147.885	D	A
BIRMINGHAM	WA4MHO	147.94	147.34	*	
BREWTON	WA4TYH	146.37	146.97	*	
DOTHAN	KE4MZ	146.24	146.84	*	A
DOTHAN	WA4ZPI	147.94	147.34	*	
DOUBLE OAK MT	N4DMA	146.38	146.98	*	
GUNTERSVILLE	K4CZZ	147.98	147.38	*	
HUEYTOWN	WA4JUM	147.74	147.14	*	
JASPER	WB4ACN	146.30	146.90	*	
LANETT	K4DXZ	147.60	147.00	*	
MONTGOMERY	NR4A	144.51	145.11	*	
MT CHEAHA	WB4GNA	147.68	147.08	*	
MUNFORD	W4NTI	146.14	146.74	*	EA
PELL CITY	N4ISB	147.62	147.02	*	PA
TUSCALOOSA	KX4I	144.75	145.35	*	
TUSCALOOSA	KX4I	147.66	147.06	*	
WARRIOR	WB4YOX	146.24	146.84	*	

220 MHZ

BESSEMER	N4AHN	222.54	224.14	*	A
PLEASANT GROVE	KD4EM	223.34	224.94	*	PA

440 MHZ

BIRMINGHAM	K4FUM	444.90	444.30	*	
BIRMINGHAM	N4DJR	449.20	444.20	*	
BIRMINGHAM	WA4MHO	449.55	444.55	*	
CHEAHA MTN	WA4URC	449.00	444.00	*	
CLANTON	NR4A	448.30	443.30	*	
DOTHAN	WA4ZPI	449.05	444.05	*	
HIGH LEVEL	KE4GA	449.975	444.975	*	
HUEYTOWN	N4DJR	448.80	443.80	*	
HUEYTOWN	WA4CYA	449.70	444.70	*	T
MONTGOMERY	NR4A	442.65	447.65	*	
PRATTVILLE	NR4A	442.925	447.925	*	
TUSCALOOSA	KX4I	447.90	442.90	*	

10 METERS

TUSCALOOSA	KX4I	29.56	29.66	*	

6 METERS

BESSEMER	N4AHN	52.15	53.15	*	
FT PAYNE/LKT MT	KB4CVN	52.03	53.03	*	PA
HAYDEN	N4CCQ	52.01	53.01	*	

November Floods In WV

— by Ted Wolfe, WD4KHL

Eleven rivers in West Virginia exceeded their flood stages on Nov. 4 and 5 as over eight inches of rain fell into the mountain areas as the remains of hurricane Juan moved through the state.

Amateurs were cooperating with the National Weather Service prior to the streams leaving their banks. Hams relayed rainfall and river stage information to NWS and station W8GK at the state Office of Emergency Services.

As streams overflowed electrical power and telephone circuits began to fail in a number of localities. Amateur operators began to be more involved, often finding themselves in flooded premises.

Thirty three of the state's fifty five counties were affected. Twenty-nine of the counties were subsequently declared disaster areas by President Reagan.

Approximately three hundred hams assisted during the weeks of emergency operation. Many of the state's two meter repeaters were used, often with emergency power, as well as some repeaters in neighboring Virginia and Maryland.

State hams were assisted at times by others who made up teams from Ohio, Maryland, Pennsylvania, Virginia, and North Carolina. Hams from all those areas responded to a call for help.

Many times the hams had to be flown into the locales where they would work by National Guard helicopter. At times only an amateur license would be accepted as identification to get through police blockades.

Within hours of being alerted, hams had established nineteen 80-meter stations at strategic locations. Scores of two-meter links were used to handle traffic for city, state and county governments.

Information from the Governor's office published on Dec. 15 summarized: 37 dead in the flooding, 10-persons still missing at that time; more than 5,100 homes destroyed or condemned, another 3,000 received major damage and 2,454 others suffered minor damage. The overall damage estimate was $500-million.

Included in that figure were many washed out highways and bridges.

I've seen a copy of the report by the West Virginia SEC, George Puzzuole, K8QEW, in which he lists 242 individual amateur stations heard during the days of emergency operations.

Command posts were established in the communities of Annmmore, Brandywine, Cherry Grove, Circleville, Elkins, Franklin, Greenbank, Greenbriar, Judy Gap, Marlinton, Moorefield, Parsons, Petersburg, Philippi, at Pocahontas High School, Riverton, Rowlesburg, Seneca, Sugar Grove and Upper Tract. The Franklin station reportedly handled over one thousand messages during the first four days of operation.

Among agencies serviced by the hams were WV OES, agencies in all the affected counties, the National Guard, State Police, Fire Departments, Rescue and medical services, Civil Air Patrol, Department of Natural Resources, Salvation Army, the Red Cross and some traffic was handled for telephone and power company crews.

Seventeen or more stations acted at one time or another as Net Control on HF.

In the post disaster period the weather service averred that it put out the warnings to all county control points. Beyond that there apparently were some communications breakdowns. Some rural counties employ only a part-time emergency coordinator and still others depend on volunteers.

I'm sure a lot was learned by all agencies involved. Hopefully by drawing upon these experiences in what has been described as the worst flooding in the state in one hundred years better procedures will be developed.

WEST VIRGINIA NOTES

By Ted Wolfe, WD4KHL

Mike Palmer, K8LG, Morgantown, resigned in late 1984 from his post as CVRA/SERA Vice Director, North, for the West Virginia District.

As my term as Director runs through 1986, I shall for the remainder of my term serve without a vice director, North. Those in that area of the state with coordination or other questions should contact me directly via mail or telephone. Karl Morris, WB8GDY, remains as vice director, South.

Karl has retired and will be on a two month trip through the South, returning in early March.

When my term as director ends late in 1986 I will have served more than two full terms. Now is the time for those of you who represent FULL REPEATER MEMBERSHIP to begin considering who you would like to represent you in 1987 and beyond as state director in West Virginia. Individuals listed on CVRA/SERA FULL REPEATER MEMBERSHIP forms are those eligible for office and are the parties who vote for Association officers.

There will only be three more issues of the Journal (May, Aug., and Nov.) before still another year will have passed. Be thinking about candidates for director. I'm not inclined to run again and it's time for another VOLUNTEER to step forward and accept responsibility thrust upon him by other repeater owners/operators.

I will continue to contribute articles to the Journal as long as it accepts my material. Writing of the **West Virginia Notes** is not a requirement for a director. But if the new director for 1986 is talented in that direction, responsibility for the **Notes** may also be assumed and I'll submit my material then simply as an Associate Member.

If all goes well before the copy deadline for this issue and the editor accepts the material you should find elsewhere in this issue separate stories on the severe flooding in portions of West Virginia in early November and one on packet radio activity in the Mountain State.

Remember, the Journal is your magazine. Help it by submitting stories, articles, photographs, or even suggestions. I have encouraged others in West Virginia to submit stories directly to Wayne, the Editor, or to submit them through me, whichever way you prefer to go. CVRA/SERA is fortunate to have Don Williams, WA4K, Bluefield, who is a fine writer and often submits articles concerning 2-meter matters in southern West Virginia.

• • • •

New 1986 officers for the Kanawha ARC in the Charleston area, who take office in January, are: Mac McMillon, WD8OZT, President; Bernie Engebretson, KA7IMV, vice president; Betty Palmer, N8GZB, secretary; and Oliver Rinehart, KA8TIK, treasurer.

And from the Jackson County ARC at Ripley, via their "Loud 'N Clear" newsletter, the list of officers there for 1986 follows: Les Shockey, WB8SNO, Pres.; Bob Morris, WA8CTO, first VP; Greg Parsons, KC8VW, second VP; Geneal Bailey, NK8P, Sec.-Treas.; Jim Dean, KC8FK, activities manager; Buck Earley, WA8USO, technical coordinator; and Clark Stewart, W8TN, club station trustee.

• • • •

Putnam Amateur Radio Association has activated its new repeater at Liberty, WV, on 144.81/145.41. It still requires some more work to bring it up to expectations. It carries the K8SLI call, the same as the club's primary repeater at Scott Depot on 147.87/27.

The club coordinated the pair some time ago but failed to move quickly. Just before the frequency pair was to be returned to the coordination pool the club asked for volunteers, including a project manager. Then they asked for an extension of time and the volunteers went to work. They found a site, erected a tower, and installed the equipment. Bob Schoolcraft, WD8BCY, Poca, was the project manager. But credit must also go to the volunteer workers. However, I do not have a list of those hams who put so much time into the project.

The new repeater at Liberty is just one of two projects undertaken this year by PARA. The other was to activate a packet repeater in the area. More on that in our separate packet story.

• • • •

The next Charleston area amateur radio VEC test is scheduled for Saturday, March 1, 1986, at George Washington High School. The test period runs from 8:00 a.m. to noon.

Prior to that the East River ARC at Bluefield will administer tests at Bluefield State College

Continued on Page 29

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DIRECTOR, ROANOKE DIV.
1416 RUTLAND DRIVE
VIRGINIA BEACH, VA. 23454

WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

on Sat., February 8, beginning at 9:00 a.m.

They have an ad in this issue. Go by the date then [illegible] the Fayetteville, WV, hamfest, usually held in February. I've not been notified formally of this year's date but understand from one ham in that area that it will be on the 23rd of this month, again at Fayetteville High School.

• • • •

Repeater callsign changes: St. Albans, 147.975/147.375 (dedicated to RTTY use) from K8BCH to K8WMX; and Williamson, 144.73/145.33, from K4CAS (as listed in Nov. Journal) to N8GEO. For a short time the repeater carried the WB8WEZ call.

• • • •

We are presently in the process of coordinating a new 2-meter repeater for Spencer. And we're waiting for paperwork for another one south of Clarksburg. And also in the processing line are coordinations for two 440-Mhz frequency pairs for use in the Bridgeport area as mobile repeaters to be used for emergencies and as needed. Details after the paperwork is completed.

• • • •

You'll note the dropping of a repeater at Spruce Knob. It is now listed at Elkins. During testing at Spruce Knob, the 145.29 (output) repeater caused some complaints from Maryland. Spruce Knob is the highest location in West Virginia. Sponsors refiled papers for the same pair at a location east of Elkins.

• • • •

I've tried for a couple of years to get Gary Holt, N8BZS, to bring his repeaters under CVRA/SERA. Just before copy deadline I got a package from Wayne at Greensboro and Gary's system's application for FULL REPEATER MEMBERSHIP was the first received for 1986 in WV. The application went direct to Greensboro, but I received a copy.

Gary along with Tim Ford, KC8IT, at Mullens and Dale Warrick, KD8X, Beckley, have the Bolt Mtn. 145.17, and Layland/Mann Mtn. 145.31 repeaters on 2-meters and the Kingston/Lick Knob N8FRV 449.800/444.800 and Herndon/Pilot Knob N8CYH 449.000/444.000 repeaters on the air.

The group also will have another repeater output 146.925 near Springville, Va.

• • • •

I thought the word 'radar' was one of those coined during World War II to sescribe a particular radiolocation electronic weapon. But I recently read an obituary of an 80-year old man who was named Radar (not a nickname) so I guess the word was around before WWII as a proper name.

• • • •

Jim Davis, KU8R, Charleston voiced on the December WESTLINK REPORTS. I also recognized his voice as the unseen "voice-over" or booth announcer for the Dec. 7 statewide West Virginia flood relief telethon which was carried by all the commercial and public broadcasting stations in the state that evening.

Jim has promised to write up something, with pictures, on his ATV repeater in Charleston. It is located at the 400-foot level of one of the WCAW radio towers near Kanawha City. Using vestigal sideband technology the ATV repeater operates on 439.25 Mhz in, 421.25 out, with a power of 100-watts. It features a color bar generator and on-screen time and call letter display.

If you're on ATV and think you can hit the repeater, "have a go at it," says Jim.

Right now the only other regular users in the valley are Ken Rupe, WD8AEW, and Al Hix, W8AH.

• • • •

To return to the subject of hamfests for a moment, sponsors of the Charleston event have announced a date and location change for the second annual hamfest to be held in 1986.

The date this year will be Sunday, July 27, at the Little Arena of the Charleston Civic Center complex. It's air conditioned.

Briarpatch Club Officers

The following persons have been elected as officers for the Briarpatch Amateur Radio Club for 1986:

Phil M. Berry N4AKZ - President
Dave Newman NA4L - Vice-President
Patricia R. Berry WD4BXV - Secretary
Sue Diamond N4DQZ - Treasurer

An "Outstanding Service" plaque was presented to Junior Diamond N4VL by the BARC at the recent banquet, along with certificates of appreciation to James Blythe NX4B, Junior Diamond N4VL, and the outgoing officers. Dave Newman NA4L was presented with his "Honorary Lifetime Membership" from the club.

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TALK IN: 147.69/09 and 144.77/145.37

Looking back

—by David Ward, KA4LVO

The February 1976 Repeater Journal

The front page story of the February 1976 Repeater Journal stands back and takes a look at the organization, its problems and its objectives. To begin with, the area of the bylaws concerning Directors and Vice-Directors was explained in greater detail, with emphasis placed on the necessary qualifications and responsibilities. This editorial also dealt with the 'future' problem of running out of repeater pairs in several of the districts. A comparison of the CVRA territory with Florida was made, and procedures used by the Florida Repeater Council were mentioned as possible solutions for the CVRA. Another solution discussed was not building additional repeaters in an area that already had repeaters that sat idle most of the time. Still another solution to 'not having a repeater to use' was to use simplex. Many conversations held on repeaters could satisfactorily be conducted on a simplex frequency. A final solution suggested utilizing bands other than the 2-meter band, such as 220 mHz and 450 mHz. But as editor Bill Parris, K4GHR wrote, these objectives and solutions cannot be carried out without the support of the amateur community. (A look at December 1975 statistics show over 700 members and 65 member repeaters; that's 10 individuals per repeater. December 1985 figures show about 6 individuals per member repeater. What's happened during these past 10 years? Fewer repeater users? More idle and unneeded repeaters? More amateur apathy?)

Today's version of the old CVRA consists of 7 districts, each district consisting of all or part of a state. In 1976, there were 9 districts, but the district was much smaller and a state included several districts. The three states of Virginia, North and South Carolina were divided into 9 areas of approximately equal size, with some districts covering repeaters in two states. These districts were named Piedmont, Coastal, Western, Eastern, Central, Southern, Bay, Northern and Mountain. Each district had news from their area printed in the Journal.

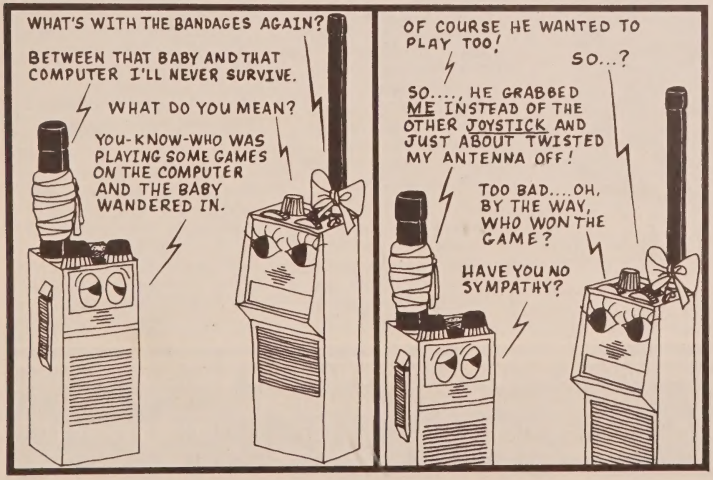
Looking back at the names of the people involved in the CVRA in 1976 show us a few names we still find in the Journal today. Carter Cogle, K4ARO, (now SERA president) was then Northern district director and CVRA secretary. Then associate membership chairman Lindsay Cleveland, W4IZI still serves the SERA by assisting in data management and organizational growth. The 1976 vice-president and director of the Coastal district was Calvin Dempsey, WA4UQC, now vice-director for the North Carolina district. Danny Hampton, K4ITL, who is now North Carolina's assistant director was the vice-director of the Eastern district. And the newly appointed director of the Piedmont district (replacing W4BUZ who had just resigned) was Wayne Williams, K4MOB, now Repeater Journal editor.

A report from the December 7, 1975 board meeting was also printed in the Journal. My last article stated that work was begun to obtain a decal for sale to CVRA members. During the meeting, K4GHR presented cost estimates for the decal, but no action would be taken until after an operating budget for 1976 was prepared. The financial report presented was brief but sufficient: 1975 Income was 1697.37, Expenses were 1614.86, Balance on Hand 1/1/76 was 613.68.

A report of FCC activity told of several things occurring there. The 'Amateur and Citizens Division' was still more overworked due to the tremendous number of CB license applications. In order to tackle this work, most amateur related dockets were put on the back burner unless they dealt with deregulation of amateur radio activities AND they were not too complicated. This workload could have helped support the 'instant upgrade' concept which was being discussed at the time. Another proposal would eliminate the necessity of signing "Mobile 4" or "Portable 4" when away from the location of the station license. Some deregulation of phone patch use was also mentioned. But some action had been approved giving more freedom to the amateur. Docket 20113 now allowed "unlimited crossband operation of repeaters in the authorized repeater subbands." Another rule change dropped license renewal requirements for code proficiency and operating time. Also, applicants for an extra class license would not have to hold a lower class license for at least a year; this requirement was also dropped.

Finally, there was a bonus found in the February 1976 Repeater Journal. A listing of Georgia repeaters (all 47 of them) was printed from a list by the Georgia Repeater Frequency Coordinator. Also, the Florida Repeater Council provided a listing of the 131 repeaters in their state. Thus, the February issue of 10 years ago listed the repeaters from the Richmond, Va. area south to Key West using less than 4 pages.

Stubby by Fred Hurteau, WD4SKH


WHAT'S WITH THE BANDAGES AGAIN?
BETWEEN THAT BABY AND THAT COMPUTER I'LL NEVER SURVIVE.
WHAT DO YOU MEAN?
YOU-KNOW-WHO WAS PLAYING SOME GAMES ON THE COMPUTER AND THE BABY WANDERED IN.
OF COURSE HE WANTED TO PLAY TOO!
SO...?
SO...., HE GRABBED ME INSTEAD OF THE OTHER JOYSTICK AND JUST ABOUT TWISTED MY ANTENNA OFF!
TOO BAD....OH, BY THE WAY, WHO WON THE GAME?
HAVE YOU NO SYMPATHY?

CVRA-SERA Memberships

Get a friend to join CVRA-SERA as an Associate Member. The organization badly needs to increase its membership numbers, to cut costs-per-member down. This will delay future membership increases.

Clip the Associate Membership form in the Journal, make copies and pass them around to friends who are not members, or better still make them fill out the form and pay you, and you send in his application with the others you get.

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Frequency Coverage. The IC-02AT covers 140.000 through 151.550MHz and the IC-2AT, 141.500 through 149.994MHz...both include frequencies for MARS operation.

IC-02AT Features. ICOM's top-of-the-line IC-02AT handheld has the following outstanding features:

- DTMF direct keyboard entry
- LCD readout
- 3 watts standard, 5 watts optional (with IC-BP7 battery pack)
- 10 memories which store duplex offset and PL tone (odd offset can be stored in last 4 memories)
- Frequency dial lock
- Three scanning systems: priority, memory and programmable band scan (selectable increments of 5, 10, 15, 20 or 25KHz)

IC-2AT Features. The IC-2AT is ICOM's most popular handheld on the market. The IC-2AT features a DTMF pad, 1.5 watts output and thumbwheel frequency selection. The IC-2A is also available and has the same features as the IC-2AT except DTMF.

Accessories. A variety of slide-on battery packs are available for the IC-02AT and IC-2AT, including the new long-life 800mAh IC-BP8 which can be used with both handhelds.

Other accessories include the HS-10 boom headset, HS-10SB PTT switchbox, HS-10SA VOX unit (for IC-02AT) and an assortment of battery pack chargers.

The IC-02AT and IC-2AT come standard with an IC-BP3 NiCd battery pack, flexible antenna, AC wall charger, belt clip, wrist strap and ear plug. See the IC-02AT and IC-2AT 2-meter handhelds at your local ICOM dealer.

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Georgia News

—Compiled by Lindsay Cleveland, W4IZI

The Georgia District elections are over and the results in. A clear majority elected John Abercrombie, N4JA, of Augusta the first Director of the Georgia District. As for Vice-Director: since there was only one name on the ballot, it was pretty lop-sided. John Robertson, N4BGL, has been elected to that position. Now that they are officially representing the repeaters in Georgia, it will be up to all of us to give them our support. One of the best ways to help is keeping them informed about what is going on around the state. Their addresses and telephone numbers are on the back cover of each *Repeater Journal*, so let them hear from you.

• • • •

I would like to insert a personal note here. Newell Anderson, W4AQE, who was elected to the interim steering committee at the Atlanta Hamfest, recently had some surgery. Even while recovering from that, he still found the time and strength to complete his job on the committee. The time, effort, thought, and diplomacy he contributed were a large factor in the successful startup of the Georgia District.

News Comes In

Both the Central Georgia Amateur Radio Club and the Dalton Amateur Radio Club have kindly added me to the mailing list of their club newsletters. I appreciate receiving them and hope that other Georgia clubs will do the same. And then there are the nice folks who give a call or drop a note every now and then to feed me information about what they are doing. With the hamfest season over and the holidays and all, I don't have too much to pass along this time. Let's hope it gets better as the weather warms up.

The Mexico Earthquake

With the recent ruling from the FCC that Amateur Radio could be used to "feed" the news services, there was a lot more good publicity for the services our operators provide to the public. The Georgia Tech Radio Club shack was a bit crowded with the TV cameras and lights, but the folks at the station handled themselves quite well. The competence and "professionalism" was very evident. They can be very proud of themselves.

From the Mountains

DALTON (From DARC Newsletter): The folks up in the northern part of Georgia have been busy as usual. Besides providing communications during the "Heart Run" in Dalton, Jeannie Adams, KB4MOX, got a little closer than usual to the action. When a runner collapsed due to heat stress, Jeannie first radioed to the ham riding shotgun in an ambulance to come to the scene, and then proceeded to render first aid to the victim. She gave up her jacket to make the patient comfortable until the ambulance arrived. Happily, the victim suffered no lasting ill effects.

You would also think that a Band Festival is a nice, safe event, but not so. Besides providing the usual communications between the bus parking lot, registration, pre-competition assembly area, and many points along the marching routes (some of those bands had over 200 members!), the Dalton hams also coordinated four ambulance runs (heat prostration, broken foot, ...), and made the Festival organizers well aware that "Amateur" does *not* mean "klutz".

All of the public visibility pays off. The Novice and upgrading classes are well attended, and so was the club meeting at which I spoke.

To the Plains

VALDOSTA: The Valdosta A.R.C. has done some fancy work in showing off the new Emergency Communications Van. Besides all the effort in obtaining and installing the generator, ham gear, PA system, water tank, radiation detection equipment, *etc.*, they also made it look very "professional" with interior carpet and wood work. But to top it off, they came up with a leaflet to pass out to visitors. It has pictures of the van, Novice classes, Field Day, and an explanation of what uses the Van can be put to, together with a short history of the club. (How many other clubs can claim ARRL affiliation since 1947?)

• • • •

WARNER-ROBINS/MACON: The Central Georgia Hamfest was a very well-run affair, and they certainly were gracious to CVRA-SERA. There was table already set up for our display and it was located in a very good spot where it could be seen by all attendees. Quite a few new Associate Members were signed up and we even reclaimed some former members who rejoined. But to top it off, their next Newsletter contained a half-page column

Associate Membership

Now that Georgia is a full-fledged CVRA-SERA District, and a majority of the repeaters have quickly become Full Members of the Association, we move on to the next job: Associate Membership. While one of the main purposes of CVRA-SERA is coordination of frequencies and representing the interests of the repeaters throughout the area, there is another purpose: communicating with the hundreds of repeater users! To many people the Association *is* the *Repeater Journal*. One of the great services provided is the quarterly listing of all the repeaters in the seven Districts. Each one reading this issue, after chuckling over the "Stubby" cartoons, probably turned to that section and checked to see if their local repeater was properly listed.

But the *Repeater Journal* costs *money* to print. The advertisements help defray a lot of the cost, but the bulk is borne by the individual Associate Members and their $5.00 memberships. Now that the Georgia repeaters are being listed, that means more page space, which means more paper, which means more cost to produce. Georgia repeaters have shown their support and confidence in CVRA-SERA, it is now the turn of the Georgia repeater users to show *their* support.

Some of the local club newsletters have already started running a copy of the Associate Membership application blank, and when I attend a hamfest there are many cases of one ham steering a friend over to the booth and saying "It's the best $5.00 you'll ever spend!" This seems to be the best way of getting new members. If each one of the current Georgia Associate Members decided they would help two or three friends by showing them the current *Repeater Journal* issue and encouraging them to sign up, we could put Georgia ahead of every other District in membership! So take the trouble! You will feel good, and your friends will feel good. But best of all, it will make Georgia *look* good!

73 — Lindsay, W4IZI

Foundation Scholarships

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with Headquarters in Washington, D.C., plans to award twenty-one (21) scholarships for the academic year 1986-87. The Foundation composed of fifty local area amateur radio clubs, fully funds two of these scholarships from the proceeds of its annual Hamfest. It administers without cost to the donors, seven (7) scholarships for the Quarter Century Wireless Association, two (2) each for the Dade (FL) Radio Club, the Baltimore (MD) Amateur Radio Club and the Department of State Amateur Radio Club and one (1) each for the Radio Club of America, the Richard G. Chichester Memorial, The Young Ladies' Radio League, the Edmund G. Redington Memorial, the Amateur Radio News Service and the Columbia (MD) Amateur Radio Association.

Licensed Radio Amateurs may compete for one or more of these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled or have been accepted for enrollment in an accredited university, college or technical school. Most of the scholarships require the applicant to hold at least an FCC General Class license or equivalent. The scholarship awards range from $350 to $900 with preference given in some cases to residents of specified geographical areas or in pursuit of certain study programs.

Additional information and an application form can be requested by a letter or QSL/postcard, postmarked prior to May 31, 1986 from: F A R Scholarships, 6903 Rhode Island Avenue, College Park, MD 20740.

The Foundation is a 501(C)3 organization, devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

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- **Polypropylene** – 3 strand twisted . . . a first class 3-strand twisted 100% mono filament polypropylene rope, twice as strong as manila.
- **Mariner** . . Diamond Braid Polypropylene rope, 8 strands, a real work horse. Easy to splice resistant to damage by rot, abrasion, oil grease.
- **Twisted Nylon rope** . . . regular 3-strand, medium lay nylon rope, the strongest rope in general use today. Will stand sudden shock.
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1/4-inch 4-cents/foot
600-foot spool 16.88
1,000-foot spool 26.88

3/8-inch 8-cents/foot
600-foot spool 37.50

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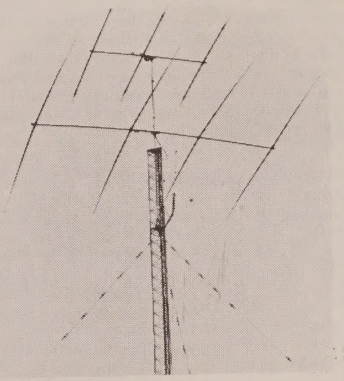
West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.



BATTERY TAPS

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessable. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. Has proven quite adequate for high current needs.

Battery Taps ..... 4.95 ea.

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High quality commercial units. Low loss, low noise. Frequency range through 1 Ghz. Bulkhead and inline types available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

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PL-259 CONNECTORS (U.S. Made) .....65¢ ea.
10 or more .....60¢ ea.
UG-175 or 176 ADAPTERS.....30¢ ea.
10 or more .....25¢ ea.

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Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs. - In Stock
24-foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large 20-oz. Industrial spray can ... $6.00

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Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

25-foot strapping kit $18.00
50-foot strapping kit $25.00
100-foot strapping kit..... $36.00

FOR THE ULTIMATE MOBILE INSTALLATION

We have what you need — wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

WIRE – Single Conductor-Stranded, red or black vinyl insulation . .
#10 wire.....30¢ per foot #14 wire.....20¢ per foot

FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

30-Amp Fuse Block $4.95
60-Amp Fuse Block $5.95

FUSES—5,6,7,8,10,20,25,30 Amp ....80¢ each
35,40,45,50 & 60 Amp. Fuses also available upon request.

RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .....Special $13.95

40-Amp cont. duty, solenoid-type, 12V 19.95
(Commercial Dealers, call For Dealer Prices)

OTHER ACCESSORIES AT GOOD PRICES!!

GUY WIRE INSULATORS – Compression-type porcelin. Approx 1½x2½-inches, 3/8-inch hole
Insulators .....$2.00 each 10 or more ....$1.80 each

STEEL WIRE – Zinc coated. Can be used for antennas or light guy wire, not recommended for tower guying. Sold in 10 lb. coils only.

#9 approx. 170-ft. $13.00
#12½ approx. 382-ft. $13.00

14-gauge Solid Copper THHN insul.
500-ft. spool $15.00

WEST ANTENNA SERVICE

Harwood West, WB4RLO • Local Call 621-2473

ROUTE 6 BOX 529-A
GREENSBORO, N.C. 27405

CALL TOLL FREE 1-800-334-4252
NC RESIDENTS 1-800-632-0389

REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1986

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20 MAY Issue–Mar. 20
AUG. Issue–June 20 NOV Issue–Sep. 20

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: We can provide one additional color on our standard color pages for $25.00.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

Advertising copy MUST be mailed to: REPEATER JOURNAL ADV. MANAGER, SHARON WARD, 5573 Vienna-Dozier Rd., Pfafftown, N.C. 27040.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover	7-1/8″ x 9-7/8″	$100.00
Full Page	7-1/8″ x 9-7/8″	85.00
Full Page Bleed (any sides)	8-1/2″ x 11″	100.00
2/3 Page (Vertical)	4-5/8″ x 9-7/8″	65.00
1/2 Page (Horizontal)	7-1/8″ x 4-3/4″	48.00
1/2 Page (Vertical)	3-1/2″ x 9-7/8″	48.00
1/2 Page (Vertical 2-col)	4-5/8″ x 7-1/8″	48.00
1/3 Page (Vertical Only)	2-1/4″ x 9-7/8″	35.00
1/4 Page (Vertical Only)	3-1/2″ x 4-3/4″	28.00
1/6 Page (Vertical)	2-1/4″ x 4-3/4″	18.00
1/6 Page (Horizontal)	4-3/4″ x 2-1/4″	18.00
1/12 Page (Vertical Only)	2-1/4″ x 2-1/4″	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00
		In Advance
Classified Ads (30 Words Maximum per ad) In Advance		3.00
Color (1 additional color plus black) An Size Ad		25.00

Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

When you are ready to Invest In That New Radio — Remember our Journal Advertisers who are investing in your CVRA-SERA Through their Advertising Support!

I HAVE "THE SPIRIT OF '86" - SIGN ME UP FOR CVRA-SERA
CVRA-SERA ASSOCIATE MEMBERSHIP APPLICATION

Name _____ Call _____
Address _____ Date _____
City _____ Zip _____
Phone ( ) _____ Member ARRL ( ) Yes ( ) No
Enclosed is $ _____ for _____ Year(s) Mail Appl. & Fee To:

NEW _____ RENEW _____ $5.00 Year (Max 2-years)
HOT-P _____ $8.50 Max 1-Year

CVRA-SERA Assoc. Membership
Post Office Box 5655
Greensboro, N.C. 27435

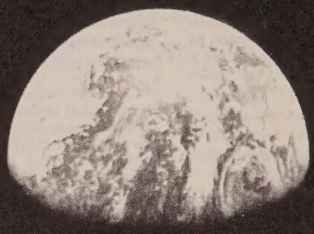
RJ 2-86

Catch The Spirit of '86!

Help Us to Help You!
Our Goal is 1,000
New Members by May
Join The
"Spirit of '86!"
Lets Increase CVRA-SERA
Membership Rolls. Each
New Member gets the
REPEATER JOURNAL Quarterly

Associate Membership - $5.00 for one Year.
HOT-P Membership - $8.50 (Your Journal mailed 1st Class)

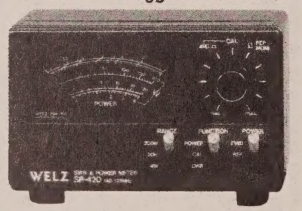
ENCOMM 1986



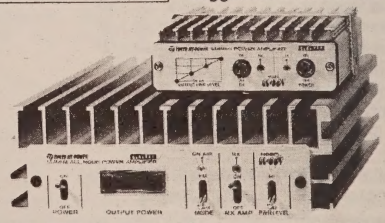
KENPRO
KR-2000RC
Suggested Retail $459.00

SANTEC
ST-20T
Suggested Retail $349.95

WELZ CORP. SP-420
Suggested Retail $74.95



THL CORP. HL-35V
Suggested Retail $89.95



HL-85V Suggested Retail $189.95

KDK FM-240
Suggested Retail $369.00

See Us At Charlotte Hamfest
March 22-23 - Booths 31-32

ENCOMM
1506 CAPITAL AVENUE, PLANO, TEXAS 75074 PHONE - 214-423-0024 GIII FAX - 214-423-0081
NATIONAL DISTRIBUTION FOR SANTEC - KDK - KENPRO - THL - WELZ PRODUCTS

Tennessee Tidbits

— by Tom Park, WD4KWP

The last three months have been rather interesting around here. First off, I got married. (That is enough to mess up anybody's schedule!). Secondly, when I got back from my honeymoon, I found my answering machine full of calls concerning a type of problem that no one ever told me could happen. I was right in the middle of the multi-state discussion concerning repeater ownership, coordination, ancient history, and the F.C.C.

• • • •

We all know that the Federal Government has been trying to "deregulate" and allow the private sector to take up the slack. Because of this and the recent discussions, our Association is in the process of sending out forms to each repeater operator asking about the origin of his repeater. Our full member repeaters should have already received this form with their renewal letters. Non-member repeaters will be receiving the forms during the next several months as we in Tennessee are able to generate our mailing list.

• • • •

This historical information is greatly needed here in Tennessee. Through the years there have been several different groups that have tried their hands at coordination. Unfortunately few, if any records were passed from group to group. So, please take the time to fill out the forms completely when they come. Also if anyone notices an incorrect callsign or other information in our repeater listing, pass it on.

The Chattanooga Tri-State FM Association reported that they have been able to finish the installation of the new mounting brackets for the antenna of the 01/61 machine. They hope that this will cure all of the noise problems that they have had of late.

• • • •

Larry Roberge, WB4NTM has gotten a new motorola machine for 146.07/67, in Nashville. The system has an ACC controller with ALL the bells and whistles. Larry says, "It's time to put FUN back into 2 meters around here!". Anyone that has heard this machine can certainly agree that Larry has at least given us some new toys with which to play. Special note: this machine and its patch are open to all.

• • • •

(The Chattanooga group and several others have put me on their club news letter mailing list. Why don't you?).

Aeronautical Mobile Fun. . . But Be Careful!

It's always exciting to get up in an airplane with your handheld and "work the world" on two meters. But extra care should be taken while working "aeronautical mobile".

Often times, a person at about 15,000 feet working through a repeater doesn't realize it, but he is keying up repeaters on that same frequency for hundreds of miles. We have heard stories of persons on their way home and wanted to make that "unique" autopatch call in the home repeater. Unknowing to them, they were calling up autopatches all over the State and neighboring states of repeaters on the same frequency.

The best rule of thumb is never place autopatch calls from the skies, and stay off of repeater pairs as much as humanly possible. No one likes onesided conversations on their repeaters. If youy must make a call, do it briefly, and if you contact your party, move them to a little used simplex frequency, quickly. This will prevent interference to repeaters around the state.

There's lots of fun to be had working simplex from an airplane, but again, listen carefully before you place a call, your signal can be heard for hundreds of miles. If the frequency on simplex sounds clear after a few minutes of monitoring, place your call, and enjoy the DXing on 2-meter simplex. It's fun!

AMSAT More Fun Than Ever

Did you know you can now earn a satellite DXCC, WAC or WAS? Many new things are now available for amateurs working OSCAR 10 and the other AMSATs.

The organization, AMSAT is venturing into a new program called SPACE, Satellites Packet Radio Acssb Computers Education. If you are interested in amateur satellite work or want more information about your satellite activities available, contact AMSAT or become an AMSAT Member. Any Amateur may become an AMSAT member by contacting one of the AMSAT coordinators in their area. They will be glad to give you full information on the exciting world of Amateur Satellite operation and tell you how you can join AMSAT.

The AMSAT coordinators in the CVRA-SERA areas are:

W4AUZ Wm. R. Shepherd, 325 Taylor Dr., Lexington, Ky. 40505.

W4ZPG Col. John Clowe, 4144 Indiana Manor Dr., Stone Mountain, Ga. 30083.

W4EEE George F. Norton, 250 Milledge Ter., Athens, Ga. 30606.

W4FJ Ted Mathewson, 1525 Sunset Ln., Richmond, Va. 23221.

K4SR Richard Bishop, 305 Lakewood Dr., Moneta, Va. 24141.

KA8TSR John Ellison, #3 Berson Ave., Wheeling, W. Va. 26003.

WB8ZTV D.E. Knollinger, Rd. 4, Box 230, Moundsville, W. Va. 26041.

W4AMI Robert W. Barbee Jr., 2989 Carnoustie Rd., Memphis, Tn. 38128.

WB2LEI Jerry Malin, 709 Madras Ln., Charlotte, N.C. 28211.

KB4AKQ Bob Myers, 346 Parkdale Dr., Charleston, S.C. 29407.

KJ4BF Lee Barnett, 701 E. Curtis St., Simpsonville, S.C. 29681.

You are cordially invited to

attend the umpteenth annual

Durham Hamfest

at

South Square Mall,
Durham, North Carolina

Saturday, May 24th 1986

8 A.M. until 4 P.M.
$4.00 at the door (still the same)
Free Tail Gating
Tables for Rent

the Friendly Repeater
WA4WTX/R
Talk In 147.825/.225

FCC EXAMS

the Durham FM Association

First 220 MHz Repeater In Eastern NC

— by Bobby Griffin NF4C

The Rocky Mount 223.96 MHz machine marks the first 220 MHZ repeater in eastern North Carolina. This repeater was put in regular service the first of October and was experimentally on the air in July. The repeater is located south of Rocky Mount and has excellent coverage in Nash, Edgecombe and Wilson counties. The machine is sponsored by Bill Coleman, KA4DAP, Lonnie Pridgen WB4BZZ and Bobby Griffin NF4C.

The construction was done by Bobby Griffin and Lonnie Pridgen with equipment furnished by Bill Coleman. The repeater consists of Hamtronics, Midland, Vocom and Icom gear with other gear consisting of a Wacom duplexer and Hustler antenna. The repeater runs 13 watts out of the PA to the antenna at 113 feet and is battery backed up in case of power failure.

We hope this first 220 MHz repeater in the eastern part of the state will generate some interest in the 220 MHz band.

"Watch Those Good Deals"

— by David Jones, N4JED

Everyone has seen the parts or connectors they needed offered at real low prices at hamfests. But not often do we take time to look closely at these products. During my last two hamfests of this past year I took the time to stop and look in all the boxes of PL-259 plugs being sold as new items at prices of $.75 and less.

To be truthful, I was a bit surprised at what I found. In all cases, there was upwards of 30% of these plugs being visibly defective. Of course, in none of these cases was the dealer making claims about the product and the potential buyer did have the opportunity to inspect each PL-259 before purchase. But there is the catch. Be sure you do look at what you are getting.

With the PL-259, the two most common visible problems are out-of-alignment center pins and metal burrs on the inside of the housing. Center pin alignment is the easiest problem to see. Just pick up the plug and twirl it around with your fingers. If the center pin appears to stay in the same position relative to the body of the plug, it's usually suitable for use.

Burring is another matter. All the burrs I noted were inside the plug around the braid solder holes and the only way to see these was by close inspection through the rear of the PL-259 angled to allow light to fall inside. Many of the burrs I observed extended 1/4 of the way into the body opening and; in the cases I tried, could not be knocked loose. If you bought these plugs, at the least you might not be able to seat your cable braid and dielectric all the way in but at the worse, you could short your center conductor to ground.

So, the next time you start to reach into that box of PL-259's or any part you need, be sure to pick it up and examine the product. Good hamming. . . .

Full Membership Forms

Repeater owners wishing to join CVRA-SERA as Full Members may still sign up. A copy of the form was published in the November Journal, on page 48, or forms may be requested from the Full Membership chairman.

If you are a repeater user and your home repeater is not listed as a member (a "D" or "N" is beside listing), why not get a copy of the form and ask them to join CVRA-SERA. Membership for the remainder of 1986, first listing in May Journal is $7.50. Deadline for inclusion in the May Journal is April 10th.

Dan's Got It All

Britt's 2-Way Radio Sales & Service

2508 Atlanta Street
Smyrna, Georgia 30080
Belmont Hills Shopping Center
(404) 432-8006

All Of These "Goodies" And Many More At Super Savings.
Come See Us Or Call 1-800-241-2027.

Ad Rate Increases Effective Next Issue

Advertising rate increases for the Repeater Journal will be effective with the May issue. New rates have been published in this issue to prepare our advertisers for the new pricing structure.

Wayne C. Williams, K4MOB, editor said, "I don't feel the small increase we have placed on the cost of Journal advertising will upset any of our advertisers." "It was something that had to be done to maintain an advertising revenue balance with membership revenues to produce the book."

Williams said a full page in the Journal is still a bargain.

"In fact", Williams said, "There is a new ARRL publication which anticipates circulation approximating that of the Journal by this summer, and they are asking 3-1/2 times for a full page as we do here at the Journal."

On a cost per reader basis, the Journal is less than 1/4 the cost of advertising in some club newsletters in the new ad rate structure.

Sharon Ward, Advertising Director said she will be mailing new ad rates with cover letters to all our advertisers well before the May issue.

Williams said the advertisers in the Journal know that our readers go all out to support them, that makes Journal advertising a gold mine at any cost to any advertiser whether it be a dealer, a manufacturer or a hamfest.

Editorial Comment

Catch The Spirit of '86!

Continued from Page 1

information for repeater users, owners, club members and listeners.

Believe it! CVRA-SERA's invisible presence is what makes your VHF/UFH operation enjoyable. Now, isn't this worthy of your support?

Catch the "Spirit of '86"

We're going to call our little promotion the "Spirit of '86". We want you as a reader to help us -- "catch the spirit!" Obviously we don't want to lose you, so be sure when renewal time comes up, send in your renewal membership right away. Secondly, we want you to go out and solicit Associate Membership for CVRA-SERA. Talk about us at club meetings, mention us on your nets, write about us in your newsletters, give us time on the P.A. system at your hamfests, give us a booth at your hamfests and above all, carry a supply of application forms around so you can sign some up immediately before he changes his mind.

What's in this for you? Well, actually nothing, as far as monetary compensation is concerned, but if you can "catch the spirit" like others of us who have been working with CVRA-SERA for years, we will succeed!

You get the Associate members in for us, and I'll take care of old "moneybags" (our treasurer) to prevent a price increase, at least until we see if we can raise the membership needed to cut the per member cost down.

Let's set a goal!

Every project or job requires a goal. Our Associate membership is hovering around 3,500 presently (not counting Full Members). Lets set a goal of 1,000 new Associate members by the MAY issue of the Journal, then we'll set another goal for the remainder of 1986.

Those of you who excell in getting memberships will be acknowledged in some manner. You keep tabs of who you sign up, and send the lists to David Ward. We'll work up something, but the main thing is get going and lets increase the membership to 4,500 by May and beyond 5,000 by the end of the year. With figures like that to toss at old "moneybags", I guarantee he can't complain about per member costs.

If you want news releases about our "Spirit of '86" campaign, let me know, or you can edit and publish all or part of this in your newsletter, the main thing, lets get out there and talk up CVRA-SERA. It's the best thing we've got going for us on UHF/VHF, let's keep it within our budget.

I know I can depend on you!

— Wayne C. Williams, K4MOB
Editor & Publisher

FINANCIAL STATEMENTS

CVRA - SOUTHEASTERN REPEATER ASSOCIATION, INC.
Calendar years 1978 through 1985

	1978	1979	1980	1981	1982	1983	1984	1985
REVENUES								
Advertising	$1,914.50	$ 2,985.75	$ 3,119.75	$ 3,745.70	$ 6,211.70	$ 7,876.75	$ 6,450.90	$ 7,434.10
Associate membership dues	4,745.00	6,865.75	7,073.05	8,050.96	9,632.00	9,967.50	10,501.25	11,788.23
Full membership dues	411.00	1,102.00	1,066.00	1,960.00	1,126.00	2,757.00	1,652.00	4,242.00
Decals	-0-	-0-	-0-	-0-	-0-	-0-	-0-	278.50
Postage - includes HOT-P	-0-	-0-	-0-	-0-	-0-	-0-	-0-	125.50
Interest	-0-	-0-	-0-	-0-	-0-	-0-	-0-	60.82
Hats	-0-	-0-	-0-	-0-	-0-	-0-	-0-	231.50
Other	-0-	-0-	79.25	16.84	344.28	16.25	54.00	82.75
TOTAL REVENUES	$7,070.50	$10,953.50	$11,338.05	$13,773.50	$17,313.98	$20,617.50	$18,658.15	$24,243.40
EXPENSES								
Journal mailing	$ 610.12	$ 958.79	$ 1,410.66	$ 1,646.33	$ 1,701.46	$ 2,282.49	$ 2,698.57	$ 2,292.49
Journal printing	4,447.58	6,767.09	8,087.13	8,333.25	12,593.20	14,369.28	15,242.26	15,620.34
Miscellaneous expenses	46.45	1,019.32	263.18	152.42	318.63	-0-	2.35	578.78
Directors meetings	258.99	290.99	569.22	330.61	759.41	600.51	795.59	996.50
Office expenses	-0-	-0-	-0-	223.31	143.07	111.58	43.13	308.80
Amortization of copy machine cost	-0-	-0-	-0-	-0-	-0-	448.00	448.00	448.00
Postage other than journal	310.11	393.93	328.17	892.34	361.24	300.17	167.86	1,238.74
Printing other than journal	498.49	877.04	691.72	595.06	801.76	1,026.68	264.74	2,011.15
Returned checks	-0-	-0-	-0-	28.25	-0-	-0-	-0-	-0-
Telephone	-0-	-0-	-0-	327.52	574.52	455.00	438.00	452.59
TOTAL EXPENSES	$6,171.74	$10,307.16	$11,350.08	$12,529.09	$17,253.29	$19,593.71	$20,100.50	$23,947.39
REVENUE OVER (UNDER) EXPENSES	$ 898.76	$ 646.34	$ (12.03)	$ 1,244.41	$ 60.69	$ 1,023.79	($ 1,442.35)	$ 296.01

Expenses advanced are two imprest cash funds held by committee chairmen. Membership chairman uses funds for mailing renewal notices. Circulation manager uses funds for mailing journal. In both instances, periodic accounting, complete with receipts are fowarded to treasurer for replenishment of funds. Except for postage, the invoices for all material items, printing, etc. are sent to the treasurer for direct payment. All expenditures are fully supported by paid receipts.

Respectfully submitted,
Ray Adams
Ray Adams, N4BAQ
Treasurer

Balances January 1, 1985

Expenses advanced	$ 900.00	
Invested in copy machine	1,344.00	
Cash in bank	1,413.04	3,657.04
EQUITY TO ACCOUNT FOR		$ 3,953.05
Less: Expenses advanced	$ 950.00	
Invested in copy machine	896.00	1,846.00
CASH IN BANK DECEMBER 31, 1985		$ 2,107.05

8 TH ANNUAL
FAYETTEVILLE, WV
HAMFEST

Sponsored by Plateau Amateur Radio Association

Hot Food Refreshments

Sunday Febuary 23, 1985 Time: 9:00 a.m.-4:00 p.m.

Fayetteville High School

Take Laurel Creek Road, Exit East about Two Blocks

Registration $3.00 Flea Market Tables $3.00

Major Commercial Exhibitors

1 st prize	Santec handheld transceiver
2 nd prize	Triband 3 element beam
3 rd prize	Ham station clock
Special prize	**Bearcat 210 scanner**
need not present to win	hourly drawings for additional prizes

ARRL Approved **ARRL Materials Available**

DX Presentation: Kampuchea XU1SS and Taiwan BVØYL

Talk in on: 146.79

For information call or write:

John Witt W8OQC
135 Daniels Street
Fayetteville, WV 25840
Phone: 304 574 0532

Come see the Longest Steel Arch Bridge In The World
876 ft above the New River

Audio Down-or Noisy Signal-Big Difference!

Often times you hear a couple talking on a repeater. One person on a handheld moves around his room and the other person hears him noisily and breaking up into the repeater.

"I'm sorry Joe, you audio was down so bad I couldn't copy you at all."

This information can totally confuse Joe. His first reaction is to get closer to his handheld and talk LOUDER. Then his over-deviation, and the additional weak signal makes him all the more unintelligible.

Repeater users who are giving reports of other persons should carefully evaluate what the problem might be before offering an opinion. A person having a problem feels bad. He starts seeking a solution, and goes around asking for signal or audio reports, trying to find the solution. Correct information will greatly assist him.

Back to Joe. The proper information to him, was to ask if he was on his H/T, and was he moving around the room. It was obvious the problem was that of a WEAK signal (RF), not audio. If his answer was yes to both questions, you can go about the normal way of suggesting he find his good "spot" of receiving the repeater, and then transmit from that same spot. Chances are, his signal into the repeater will be greatly improved.

We need to remember in weak signal paths, there are "nulls" and "peaks" depending what portion of the wavelength your antenna is situated on both transmit and receive. Moving a few inches in any direction will usually solve the problem. Get out your H/T. If it has an "S" meter, try it. . . . works for me! (Editor)

Our 1985 Advertisers

The Repeater Journal gratefully acknowledges the advertisers list from 1985. These people all help support CVRA-SERA.

*Advertised in all 1985 issues of Journal

*Advanced Electronic Appl. (AEA)
*Advanced Computer Controls (ACC)
*American Radio Relay League
Asheville Hamfest
Amateur Accessories
Bluefield WV Hamfest
Britt's Two Way Radio
*Certified Communications
Charlotte NC Hamfest
Chattanooga TN Hamfest
*Dynamic Engravers
Durham NC Hamfest
Electronics Equip Bank (EEB)
EHI Company
ENCOMM, INC.
Elkin NC Hamfest
*F & M Electronics
Generic Discount Dist.
*G.I.S.M.O. Comm.
Greensboro NC Hamfest
Greenville SC Hamfest
H.L. Heaster, Inc.
Heathkit Store GBO NC
ICOM America, Inc.
*Knoxville TN Hamfest
*MarVista Motel
Oak Ridge TN Hamfest
Oak Hill Academy
Orlando FL Hamcation
Processor Comcepts
Raleigh NC Hamfest
Richmond VA Frostfest
Rock Hill SC Hamfest
Roanoke VA Hamfest
Shelby NC Hamfest
TEN-TEC, Inc.
Tony Musero, Inc.
Tidewater (Va. Beach) Hamfest
Tidewater Solid State Coffeebreak
*West Antenna Service
Winchester (Berryville) VA Hamfest
*Williams Radio Sales

SANTEC
The ST-20T
For 2-Meters

Your Choice
$299.00
Plus FREE UPS Brown Shipping.
For Phone CODs add only $1.90
NO CREDIT CARDS.

KDK
FM-240
for 2-Meters

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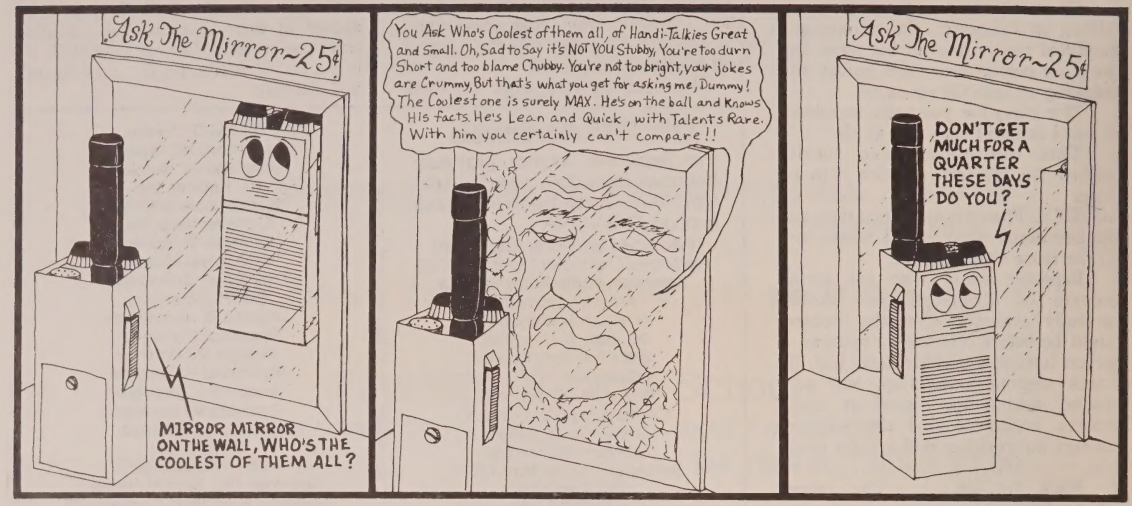
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The Charlotte Observer Marathon Communications

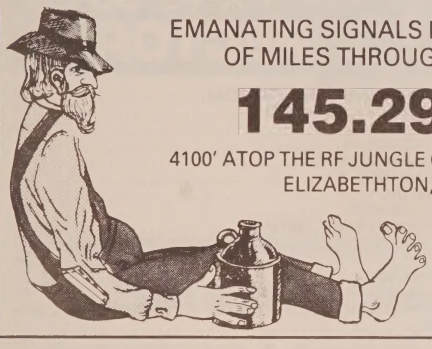
Once again the Charlotte (N.C.) ARC provided communications for the maraton. It all started Saturday morning, January 4th. The Fun Run was covered by Robert WA4TIJ as Net Control with Jim KF4KC, Jim WD4LGN, Jack K8TO, and Buck WB4OTP covering the corners of the route. The Marathon and the 10k had Net Control, W4CQ, covered by Thelma WA4JLW and Lillie WB4BUK (who came all the way from Snellville, GA for this), Don N4FNR and Bill WA4FKY assisted Net Control, Police Liason was Harold G8NF/W4, Poop Out Vans were Jeff W4USH and Wray WB4BQG. The Aid Stations were covered by Carolyn KA4AVL, and Mike KA4VUK, Bob K2VJG, Jim WD4LGN, Robert WA4TIJ, Dave W4PFM, Ike AJ4M, Jack K8TO, Jim KF4KC, Dean WU4A, Buck WB4OTP, Buster W4YVZ, Bob KB4BVH, Jim KK4N, Nestor KI4UD, and Lewis KF4TJ. The communications were organized by Paul WB4MCI.

After the event was over most everybody got together at a local restaurant for a critique session.

It should be noted that 54% of the Club's Membership committed themselves for this annual event which says a lot for the continuing Public Service aspect of this Club. Everybody said that they will be looking forward to doing it again next year.

Paul W4PFM and Bill WA4FKY from the Union County Amateur Radio Society (UCARS), Dave KA4EYY from Jungle Aviation and Radio Service (JAARS), and Jim KK4N are to be thanked for their assistance.

Catch The Spirit of '86!



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Coming Events

1986 HAMFEST/CONVENTION CALENDAR

Please note. Dates marked with an asterisk are NOT confirmed dates and are based on the same week as last year's show.
DEADLINE for entry in May Repeater Journal is April 1.

FEBRUARY

8-9 ..... Tropical Jamboree, MIAMI, FL
16 ..... Winter Hamfest, ELKIN, NC
23 ..... Hamfest, FAYETTEVILLE, WV

MARCH

7-8-9 ..... Hamcation & Computer Show, ORLANDO, FL
22-23 ..... Hamfest, CHARLOTTE, NC
22-23 ..... Hamfest, COLUMBUS, GA

APRIL

13 ..... NC State ARRL Conv/Hamfest, RALEIGH, NC
19 ..... Hamfest, KENNESAW, GA
25-26-27 ..... Hamvention, DAYTON, OH

MAY

3-4 ..... Hamfest, GREENVILLE,SC
11-12 ..... Roa Div. ARRL LPM Meet, GREENVILLE, SC
17-18 ..... Hamfest, BIRMINGHAM, AL
17-18 ..... Hamfest, LAKE HARTWELL, GA
24 ..... Durhamfest, DURHAM, NC
24-25 ..... Hamfest, KNOXVILLE, TN
25* ..... Hamfest, ROANOKE, VA

JUNE

1* ..... Hamfest, HUMBOLT, TN
1* ..... Hamfest, MANASSAS, VA
7-8* ..... John Ross Hamfest, FT. OGLETHROPE, GA
8* ..... Hamfest, MUNCIE, IN

JULY

5-6 ..... Hamfestival, ATLANTA, GA
5-6* ..... WV Radio Council, Fest, JACKSONS MIL, WV
12-13* ..... Hamfest, CHARLESTON, SC
19* ..... Swapfest, CARY, NC
20* ..... TSRAC Hamfest, WHEELING, WV
26-27* ..... WCARS Hamfest, ASHEVILLE, NC
27* ..... BRATS Hamfest, W. FRIENDSHIP, MD
27 ..... Hamfest & Computer Show, CHARLESTON, WV

AUGUST

2-3* ..... Hamfest, JACKSONVILLE, FA
3* ..... Winchester Hamfest, BERRYVILLE, VA
9* ..... Jax Cty. Hamfest, COTTAGEVILLE, WV
10* ..... Hamfest, LEXINGTON, KY
16-17* ..... Hamfest, HUNTSVILLE, AL
23-24 ..... Roa. Div. ARRL Conv/Hamfest, VIRGINIA BEACH, VA
24 ..... ERARC Hamfest, BLUEFIELD, WV
30-31* ..... Hamfest, SHELBY, NC

SEPTEMBER

6-7 ..... Hamfest, CHATTANOOGA, TN
6-7* ..... Hamfest, MELBOURNE, FL
13-14* ..... Hamfest, MOBILE, AL
20 ..... Hamfest, GAINESVILLE, GA

OCTOBER

4-5* ..... Hamfest, LOUISVILLE, KY
5* ..... Hamfest, ROCK HILL, SC
11-12 ..... Central Ga. Hamfest, WARNER ROBBINS, GA
12* ..... 2nd Annual Techfest, RICHMOND, VA
12* ..... Hamfest, MAYSVILLE, NC
18* ..... Tri Cities Hamfest, GRAY, TN
19* ..... Hamfest, DUBLIN, VA

NOVEMBER

1-2 ..... Ham Radio & Computer Expo '86, LAWRENCEVILLE, GA
2* ..... Hamfest, CONCORD, NC
22-23 ..... Hamfest, GREENSBORO, NC

DEADLINE FOR HAMFEST ADVERTISING for May, 1986 issue is March 20th for space reservations, April 1 for copy. All shows scheduled from mid May through mid August should plan to advertise their show in the May issue. Contact Sharon Ward, Journal Sales Manager. Her phone and address is on page 1.

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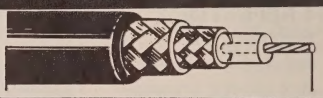

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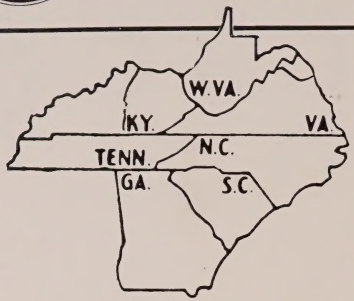

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